INCLUDES CUMULATIVE INDEX TO VOLUMES 1 - 12

Plant Varieties Journal

Quarter Four 1999 Volume 12 Number 4

'Korsetag' – A year 2000 release Cut Flower variety

Official Journal of Plant Breeders Rights Australia

Treloar ROSES

Treloars are the Australian Agent for W. Kordes & Sons of Germany, who are recognised worldwide as leaders in producing new garden and cut flower varieties.

The following Kordes varieties are protected under Plant Breeders Rights:

Variety	*Synonym*	*Type*	*Applic No.*
KORSCHWAMA	Black Madonna	Hybrid Tea	94/094
KORCRISETT	Calibra	Cut Flower	94/090
KOROMTAR	Cream Dream	Cut Flower	97/204
KORSORB	Cubana	Cut Flower	91/052
KORMILLER	Dream	Cut Flower	96/076
KORTANKEN	Domstadt Fulda	Floribunda	96/082
KORILIS	Eliza	Cut Flower	96/077
KORAZERKA	Ekstase	Hybrid Tea	96/078
KORGENOMA	Emely	Cut Flower	97/207
KORCILMO	Escimo	Cut Flower	94/093
KORFISCHER	Hansa-Park	Shrub	96/085
KOROKIS	Kiss	Cut Flower	89/132
KORVERPEA	Kleopatra	Hybrid Tea	96/084
KORDABA	Lambada	Cut Flower	94/089
KORSULAS	Limona	Cut Flower	97/203
KORBOLAK	Melody	Cut Flower	89/129
KORRUICIL	Our Esther	Cut Flower	97/205
KORANDERER	Our Copper Queen	Hybrid Tea	97/201
SPEKES	Our Sacha	Cut Flower	96/080
KORPLASINA	Our Vanilla	Cut Flower	96/081
KORBASREN	Pink Bassino	Ground Cover	96/087
KORMAREC	Sommerabend	Ground Cover	96/086
KORPINKA	Summer Fairytale	Ground Cover	94/088
KORVESTAVI	Sunny Sky	Cut Flower	97/200
KORMADOR	Tamara	Cut Flower	89/131
KORBACOL	Texas	Cut Flower	94/092
KORKUNDE	Toscana	Cut Flower	89/130
KORHOCO	Vital	Cut Flower	97/206

PBR applied for on the following varieties:

KORDREKES	Cut Flower	99/204
KORFLEUR	Cut Flower	99/201
KORKULARIS	Cut Flower	99/202
KORLUMARA	Cut Flower	99/199
KORMEERAM	Cut Flower	99/200
KORROGILO	Cut Flower	99/105
KORSETAG	Cut Flower	99/203

Please contact us for further information on these excellent new varieties

Treloar ROSES

"Midwood", Portland VIC 3305. Phone: (03) 5529 2367. Fax: (03) 5529 2511

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Plant Varieties Journal

QUARTER FOUR, 1999 **VOLUME 12 NUMBER 4**

Part 1 – General Information

Part 2 – Public Notices

SUBSCRIPTION ENQUIRIES AND ADVERTISING SHOULD BE ADDRESSED TO:

PLANT BREEDERS RIGHTS AUSTRALIA
Department of Agriculture, Fisheries and Forestry – Australia
GPO Box 858, Canberra ACT 2601
Telephone: (02) 6272 4228 Facsimile: (02) 6272 3650
Homepage: http://www.affa.gov.au/agfor/pbr/pbr.html

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Deputy Registrar

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Policy Development

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Part 1 – General Information

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. (See Appendix 1 for more details on PBR fees)

Comments. Any person may make comment on the eligibility of any application for PBR, free of charge. If requested a comment will be kept confidential. If the comment is soundly based the person may be requested to lodge a formal objection. Comments may also be made regarding the name of a variety if it is believed to be scandalous or offensive.

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.

UPOV Developments

Information on UPOV and its activities is available on the INTERNET located at http://www.upov.int

Australia verified the conformity of the PBR Act with the 1991 revision of the UPOV Convention by depositing an instrument of accession with the Secretary General of UPOV on 20 December 1999.

The complete list UPOV member states with their address and current status of ratification is given in Appendix 5.

Instruction to Authors: New Format for Preparing Varietal Description

We have introduced a new format for the varietal description. This new format **replaces the long and short descriptions with a single, comprehensive description, which will be known as the Detailed Description.**

We believe it will be easier for the Qualified Persons to work on one description instead of two. These savings will lower costs and improve the ease with which varieties move through the scheme.

However we are also suggesting additional information be included in the description eg. how comparators were selected (or rejected) and more information on the origin and breeding. This will reduce the likelihood of public comments or objection on the distinctness, novelty and the origin of the variety.

The Detailed Description will be a comprehensive summary of the variety's characteristics together with its origin and distinctive features presented under the following headings:

- **Details of the Application**
- **Characteristics**
- **Origin and Breeding**

- **Choice of Comparator(s)**
- **Comparative Trial**
- **Prior Applications and Sales**
- **Name of the person who prepared the description**
- **Comparative Table**
- **At the discretion of the QP/Applicant, scientific papers and other relevant information/publications can be appended to the detailed description**

Please note that the PBR office retains editorial control for all published material. Accordingly there may be instances when non-critical portions of a description (eg particularly verbose methodologies or appendices) are not published, although they do remain part of the detailed description. In some cases some non-distinct characteristics presented in a table may be omitted for publication.

Following are some notes for preparing descriptions under the above headings with some examples:

Details of the Application

This will include the common name of the species; the correct botanical name; name and synonym (if any) of the variety; application number and the acceptance date; details of the applicant; details of the agent (if any**).**

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; *A Checklist of Economic Plants in Australia*, CSIRO, 1994; *Australian Plant Name Index,* Australian Biological Resources Study, AGPS, 1991.

Example 1

COMMON NAME OF THE SPECIES
Genus species
'Variety' syn **Synonym** (if applicable)
Application No: xx/xxx Accepted: dd month year.
Applicant: **Applicant's Name,** Town, State (abbreviation) and Country (if not Australia).
Agent: **Agent's Name,** Town, State (abbreviation).

Characteristics
Characteristics should be described in the following order: Plant, Stem, Leaf, Inflorescence, Flower and flower parts, Fruit and fruit parts, Seed, Other characters (disease resistance, stress tolerance, quality etc). Characters within subheadings should generally be in the following order: habit, height, length, width, size, shape, colour (RHS colour chart reference with edition), other. Use a concise taxonomic style in which subheadings are followed by a colon and characters are separated by a comma. Where there is a UPOV technical guideline available make sure that the asterisk characteristics are included in the description.

Example 2

Characteristics (Table nn, Figure nn) Plant: habit narrow bushy, height medium, early maturing. Stem: anthocyanin absent, internodes short. Leaf: length long, width narrow, variegation present, predominant colour green (RHS 137A), secondary margin colour pale green-yellow (RHS 1A). Inflorescence: corymb. Flower: early, pedicel short, diameter small (average 12.5mm), petals 5, petal colour yellow (RHS 12A), sepals 5 … etc (Note: give the reference for the edition of RHS colour chart used, eg. all RHS colour chart numbers refer to 1986 edition)

Origin and Breeding
Indicate how the variety was originated, ie. controlled pollination, open pollination, induced mutation, spontaneous mutation, introduction and selection, seedling selection etc. Give the name of the parents. Also give the characteristics of the parental material by which they differ from the candidate variety. Briefly describe the breeding procedure and selection criteria used in developing the new variety. Also indicate the mode of propagation used during breeding. Give the name(s) of the breeder.

Example 3

Origin and Breeding Controlled pollination: seed parent S90-502-1 x pollen parent S90-1202-1. The seed parent was characterised by early flowering, dark green non-variegated leaves and compact bushy habit. The pollen parent was characterised by late flowering, variegated leaves and narrow bushy habit. Hybridisation took place in <location>, <country> in <year>. From this cross, seedling number S 3736 was chosen in 1993 on the basis of flowering time. Selection criteria: variegated leaves, compact bushy habit and early flowering. Propagation: a number mature stock plants were generated from this seedling through tissue culture and were found to be uniform and stable. The 'Variety' will be commercially propagated by vegetative cuttings from the stock plants. Breeder: <name>, <location>, <country>.

Example 4

Origin and Breeding Introduction and selection: 5 cycles of selection within <accession number> originating from <originating country> and supplied by the <company name> under a materials transfer agreement. When grown CI2204 was heterogeneous with both hooded and non-hooded types and differences in seed colour. Repeated selection for hooded types produced seven breeding lines (726.1-726.7) which were evaluated for forage and seed production potential. From these lines, an uniform single line known as 726.2.1 was selected to become 'Variety'. Selection criteria: seedling vigour, dry matter yield, uniformly hooded (awnless), seed colour (black). Propagation: by seed. Breeder: <name>, <location>, <country>.

Choice of Comparators
As choosing the most appropriate comparators may be the most crucial part of the trial, we suggest the QPs do more

research and record their decisions before making the final selection. Under this heading briefly indicate what factors you have considered in choosing the comparator(s) for the trial. It is strongly recommended that the parental materials or the source germplasm is included in the trial for comparison purposes. If the parents are excluded indicate the reason(s).

Example 5

Choice of Comparators 'Comparator 1', 'Comparator 2' and 'Comparator 3' were initially considered for the comparative trial as these are similar varieties of common knowledge. 'Comparator 1' is a widely available commercial variety of the same species, however it has non variegated leaves. Therefore it was excluded from the trial. 'Comparator 2', was chosen for its variegated leaves and 'Comparator 3' was chosen for its compact growth habit and variegated leaves. The parents were not considered for the trial because the 'Variety' is clearly distinguishable from the seed parent by its variegated leaves and from the pollen parent by flowering time and growth habit.

Example 6

Choice of Comparators 'Comparator 1' was chosen because it is the original source material from which the variety was selected. Comparator 2' was selected for its similarity with the 'Variety' in seed colour. No other similar varieties of common knowledge have been identified.

Comparative Trial
List the varieties or forms used as comparators – the most similar varieties/forms of common knowledge. State the location and date of the trial. Give relevant details on propagation, pot/plot size and type, growing medium, chemical treatments, lighting, irrigation, or management which may be necessary to repeat the trials. State the type of trial design used, the total number of specimens in the trial and how they were arranged. State the number of specimens from which measurements/observations were taken. Also indicate how the specimen was selected and the sampling regime.

Example 7

Comparative Trial : Comparator(s): 'Comparator 2', 'Comparator 3'. Location: Carrum Downs, VIC (Latitude 38º06´ South, elevation 35m), summer-autumn 1996/97. Conditions: trial conducted in a polyhouse, plants propagated from cutting, rooted cuttings planted into 210mm pots filed with soilless potting mix (pine bark base), nutrition maintained with slow release fertilisers, pest and disease treatments applied as required. Trial design: fifteen pots of each variety arranged in a completely randomised design. Measurements: from ten plants at random. One sample per plant.

Prior Applications and Sales
Indicate the prior overseas applications with Country, Year of lodgement, Current status and Name applied in the following format.

Example 8

Country	Year	Current Status	Name Applied
Germany	1994	Granted	'Variety'
Denmark	1994	Granted	'Variety'

Also indicate date and country of first sale and date of first sale in Australia.

Example 9

First sold in Germany in 1994. First Australian sale nil.

Name of the person who prepared the description
Name and address of the person who prepared the description. It is preferable that the description be prepared by the Qualified Person or at the very least the draft has been seen and approved by the QP before final submission. Please note that it is a responsibility of the QP under the PBR Act to verify the particulars of the detailed description are accurate.

Example 10

Description: Name, Company (optional), Town/suburb, State (abbreviated)

Comparative Table
While preparing the table **NEVER** use the "table creating features" of word processing packages as they insert hidden formatting blocks that are difficult to remove before publication. Instead, use single tabs to align columns. NEVER use drawing objects to create lines, boxes or shading. Instead use the underscore character (_) to create lines for tables. Tables should normally be either 8.5cm wide (half page) or 17.5cm wide (full page). If necessary a very wide table can be presented in landscape orientation.

Please note the following points when preparing the comparative table:

- The candidate variety is always on the left of the table. If the same table is used for two or more candidate varieties, the candidate varieties are arranged in order of application numbers, higher application number to the left of the table. Comparators are always to the right of the candidate(s).
- Arrange the characteristics in order – this should be the same as the order in the UPOV technical guidelines for the species. Please ensure that each characteristics marked with an asterisk is included.
- If a UPOV technical guideline is not available use the order same as in the text part: Plant, Stem, Leaf, Inflorescence, Flower, Flower parts, Fruit, Fruit parts, Seed, special characters etc.
- For measured characteristics Mean, Standard Deviation, Least Significant Difference (LSD)*at P≤0.01 is mandatory.
- When quoting significant differences please give the level of probability in the following format: P≤0.001, P≤0.01, or ns.
- For discrete characters do not use scores. Please give a word description. eg. round, medium, tall etc.
- For ranked characteristics just give the numbers, do not use 'normal' statistical analysis. Non-parametric statistical procedures may be used in such cases.

- Use only the number of significant decimal places appropriate to the level of accuracy of the observations.

* If there are two or more candidate varieties, use range tests rather than an LSD, such as Duncan's Multiple Range Test or any other appropriate multiple range test. Enter the grouping characters as alphabet superscripts.

Completed Part 2 Applications should be sent to:

Plant Breeders Rights Australia
Department of Agriculture, Fisheries and Forestry – Australia
GPO Box 858 CANBERRA ACT 2601

To facilitate editing, descriptions may also be sent via E-mail to: Tanvir.Hossain@affa.gov.au or PBR@affa.gov.au

Note: a signed copy of the Part 2 application along with the examination fee, one slide or photograph must also be sent by post.

Important Changes

AMENDMENTS TO THE PBR ACT

Temporary amnesty for applicants caught in the change from 6 to 4 years of prior sale

When the PBR Act was introduced it replaced the previous Plant Variety Rights Act 1987 and in doing so reduced the allowable period of prior sale for many new plant varieties from 6 years to 4 years. Following introduction of the current Act many applicants applied only to find that their allowable period for prior sale had expired up to two years earlier. To rectify this anomaly an amendment to the PBR Act has been passed and received royal assent on 10th December 1999. The new transitional arrangement will allow affected applicants the opportunity to have their applications reinstated. To take advantage of this transitional arrangement an application for a new variety must have been lodged and subsequently rejected only because it was first sold overseas between 10th November 1988 and 9th November 1990. To ensure efficient operation, any claims under this provision must be lodged within 6 months of its commencement (i.e. before 10th June 2000).

Any person who believes that their variety may meet these temporary provisions can, if they wish, contact the PBR Office to discuss whether their variety is likely to be eligible.

Other Amendments
In addition to the above, 11 other amendments to the PBR Act were also passed. Most are fairly minor and aimed at improving the efficiency of the PBR office. The changes will probably be of little consequence for most applicants and QP's. Further information regarding the likely effect and operation of these amendments can be obtained by contacting the PBR office.

- The time limit in which to advise the PBR office of any change in assignment of rights has been extended from 7 days to within 30 days. Likewise the PBR office now has 30 days in which to notify all parties of a change in assignment.
- Before an objection, request for revocation or claim of essential derivation can be accepted by the PBR office it must be accompanied by the prescribed fee.
- Who bears the cost of a test growing in dealing with a request for revocation of a PBR has changed. If revocation action is successful, the grantee bears the cost otherwise costs are borne by the objector.
- The PBR office can now recover full costs of undertaking a test growing of a variety on behalf of another UPOV country where no application is lodged in Australia.
- It is no longer a requirement for the PBR office to maintain a copy of the Register of Plant Varieties in each State and Territory.

The remaining changes are very minor and correct or clarify existing provisions. That a variety is ineligible for protection if it has been sold for more than one year in Australia or 4 to 6 years overseas has been clarified to avoid misinterpretation. An error in the placement of 'initial variety' in subsection 50(5) has been corrected. It has also been clarified that, if not already specified in the Act, the time, circumstances and manner in which prescribed fees are paid may be specified in the regulations.

HERBARIUM SPECIMENS
It is a requirement of the PBR Act that, for all native species, a suitable specimen be sent to the Australian Cultivar Registration Authority (ACRA). The processing of these specimens attracts a fee from ACRA (currently $50). Payment of the fee should be sent directly to ACRA along with the specimen and a completed 'ACRA Herbarium Specimen' (Herb1) form.

CURRENT PBR FORMS
The official forms for PBR purposes are periodically updated. A list of current PBR forms with their numbers and date of last update is given below. When a form is updated, the month and the year of the last update follow the form number within parentheses. For example, Form P1 was last updated in September 1998 and therefore this form gets a designation of Form P1 (9/98). We also encourage you to consult the 'Guidelines for Completing Part 1 Application Form' before filing in the Part 1 Application. To avoid delays we suggest that you use the latest version of the forms.

The Part 2 form has been updated in May 1999 to include the information on the "Confirmation of Submission of Propagating Material to a Genetic Resource Centre". Previously this was a separate form to be filled in at the time of final granting of PBR. We now encourage that the information on Genetic Resource Centre is given at the time of the Part 2 submission to avoid any delay to process the application at the final granting stage.

If you do not have the latest version of the form(s), please contact the PBR office. Alternatively, forms can be downloaded from the PBR web site at http://www.affa.gov.au/agfor/pbr/pbr.html

Name of Form	Form Number	Last Updated
Application for Plant Breeders Rights Part 1 – General Information	Form P1	September 1998
Guidelines for Completing Part1 Application Form	Part1ins	September1998
Application for Plant Breeders Rights Part 2 – Description of New Variety	Form P2	May 1999
Nomination of a Qualified Person	Form QP 1	April 1999
Certification by a Qualified Person	Form QP 2	April 1999
Proposed Variety Names	Form DEN1	December 1995
Extension of Provisional Protection	Form EXT2	December 1999
Exemption of a Taxon from Farm saved seed	Form ET1	September 1998
Status of Application	Form STAT 1	November 1995
ACRA Herbarium Specimen	Form Herb 1	October 1997

Overseas Testing/Data

The PBR Act allows DUS data produced in other countries (overseas data) be used in lieu of conducting a comparative trial in Australia provided certain conditions relating to the filing of applications, sufficiency of the data and the likelihood that the candidate variety will express the distinctive characteristic(s) in the same way when grown locally. Briefly the overseas data could be considered where:

- The first PBR application relating to the candidate variety has been lodged overseas, and
- the variety has previously been test grown in a UPOV member country using official UPOV test guidelines and test procedures, (ie. equivalent to a comparative trial in Australia) 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, and
- sufficient data and descriptive information is available to publish a description of the variety in an accepted format in Plant Varieties Journal; and to satisfy the requirements of the PBR Act.

The Qualified Person, in consultation with the agent/applicant, and perhaps other specialists and taxonomists, will need to evaluate the overseas data, test report and photographs to see if the application does fulfil all PBR Office requirements, and then advise the agent/applicant:

- either, to submit Part 2 incorporating a description for publication, any additional data and photographs and to pay the examination fee;
- or, to conduct a DUS trial in Australia, recommending to the applicant/agent which additional varieties of common knowledge to include;
- or, submit Part 2 including additional data (information about similar varieties in Australia to show that they are clearly distinct from the candidate variety that a further DUS test growing including the similar varieties is not warranted and that the variety displays the distinctive characteristics when grown in Australia)

Please note that the PBR office does not obtain overseas DUS test reports on behalf of applicants. It is the sole responsibility of the applicants to obtain these reports directly from the relevant overseas testing authorities. Where applicants already have the report they are advised to submit a certified true copy of the report with the Part 1 application. Applicants, or those duly authorised, may certify the copy.

If you do not have the test report available at the time of Part-1 application then you are advised to submit the Part-1 application without the test report. However, you should make arrangements to procure the DUS test report directly from the relevant testing authority. When the report becomes available, a certified copy should be supplied to the QP and the PBR office.

When the trial is based on an UPOV technical guideline and test report in an official UPOV language (English, German or French), it can be lodged in support of the application. In other cases the test reports must be in English.

The applicant/agent and Qualified Person should use the overseas test report to complete Part 2 of the application, making a decision on how to proceed in view of the completeness of the information, the comparators (if any) used in the overseas DUS trial and their knowledge of similar Australian varieties that may not have been included in the overseas test report.

If a description is based on an overseas test report, Australian PBR will not be granted until after the decision to grant PBR in the country producing the DUS test is made. The final decision on the acceptability of overseas data rest with the PBR office.

Descriptions from the Voluntary Cereal Registration Scheme

The *Plant Varieties Journal* now includes descriptions of cultivars registered under the Voluntary Cereal Registration Scheme. Please note that the publication of these descriptions in the *Plant Varieties Journal* does not qualify the cultivars to be protected under Plant Breeder's Rights (PBR). PBR is an entirely different scheme and there are certain requirements under the *Plant Breeder's Rights Act 1994*, which must be satisfied to be eligible for registration under PBR. However, it is possible that some cultivars published under the voluntary scheme are also registered under PBR. When a cultivar is registered under both schemes, the current PBR status of the cultivar is indicated in the descriptions. For information on registering a new cereal cultivar under the voluntary scheme please refer to the 'Cereal Registration Scheme' section at the back of this issue. Please note there is no descriptions from the Voluntary Cereal Registration Scheme in this issue.

Staff

We would like to introduce Bob Blazey as the newest member of the PBR team. Bob has extensive experience in policy development and international issues. He will work on amendments to the PBR Act, matters raised through the PBR Advisory Committee, UPOV and industry/state liaison.

Part 2 – Public Notices

Varieties Included in this Issue

ACCEPTANCES

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

AGAPANTHUS
Agapanthus praecox subsp *orientalis*

'Variegated Wilken'
Application No: 99/372 Accepted: 21 Dec 1999.
Applicant: **John Herbert Wilken**, Silvan, VIC.
Agent**: Anthony Tesselaar Plants Pty Ltd.** Silvan, VIC.

ALSTROEMERIA
Alstroemeria hybrid

'Savannah'
Application No: 99/350 Accepted: 17 Dec 1999.
Applicant: **Novosel's Alstroemeria Pty Ltd,** Lobethal, SA.

BORONIA
Boronia heterophylla x Boronia megastigma

'Purple Jared'
Application No: 99/335 Accepted: 9 Dec 1999.
Applicant: **The University of Western Australia,** Nedlands, WA.

BRACHYSCOME
Brachyscome multifida

'Compact Amethyst'
Application No: 99/167 Accepted: 27 Oct 1999.
Applicant: **University of Sydney, Plant Breeding Institute,** Cobbitty, NSW.

BRUNSWICK GRASS
Paspalum nicorae

'Blue Eve'
Application No: 99/362 Accepted: 17 Dec 1999.
Applicant: **Enviroseeds Pty Ltd**, Mt Crosby, QLD.

COCKSFOOT
Dactylis glomerata

'Grasslands Excel'
Application No: 98/087 Accepted: 18 Nov 1999.
Applicant: **NZ Pastoral Agriculture Research Institute Ltd,** Palmerston North, New Zealand.
Agent**: AgResearch Grasslands,** Bowna via Albury, NSW.

DIANTHUS
Dianthus hybrid

'Codianki'
Application No: 99/153 Accepted: 27 Oct 1999.
Applicant: **University of Sydney, Plant Breeding Institute**, Cobbitty, NSW.

DIASCIA
Diascia hybrid

'Codiach'
Application No: 99/155 Accepted: 27 Oct 1999.
Applicant: **University of Sydney, Plant Breeding Institute,** Cobbitty, NSW.

'Codiape'
Application No: 99/154 Accepted: 27 Oct 1999.
Applicant: **University of Sydney, Plant Breeding Institute,** Cobbitty, NSW.

DURUM WHEAT
Triticum turgidum subsp *durum*

'Arrivato'
Application No: 99/324 Accepted: 1 Dec 1999.
Applicant: **NZ Institute for Crop & Food Research Ltd,** Christchurch, New Zealand.
Agent**: Heritage Seeds Pty Ltd,** Howlong, NSW.

'4210.23.6'
Application No: 99/290 Accepted: 26 Oct 1999.
Applicant: **NZ Institute for Crop & Food Research Ltd,** Christchurch, New Zealand.
Agent**: Heritage Seeds Pty Ltd,** Howlong, NSW.

FALSE FEATHER
Cuphea hyssopifolia

'Victoria'
Application No: 99/337 Accepted: 9 Dec 1999.
Applicant: **Carolynn Milne,** Alexandra Hills, QLD.

FIELD PEA
Pisum sativum

'Cooke'
Application No: 99/227 Accepted: 9 Nov 1999.
Applicant: **Chief Executive Officer, Agriculture Western Australia,** South Perth, WA and **Grains Research & Development Corporation,** Barton, ACT.

'Helena'
Application No: 99/228 Accepted: 9 Nov 1999.
Applicant: **Chief Executive Officer, Agriculture Western Australia,** South Perth, WA and **Grains Research & Development Corporation,** Barton, ACT.

GREVILLEA
Grevillea hybrid

'Coastal Dawn'
Application No: 99/269 Accepted: 19 Oct 1999.
Applicant: **Ornatec Pty Ltd**, Birkdale, QLD.

'Coastal Sunset'
Application No: 99/268 Accepted: 19 Oct 1999.
Applicant: **Ornatec Pty Ltd**, Birkdale, QLD.

HEBE
Hebe hybrid

'Southern Skies'
Application No: 99/220 Accepted: 19 Oct 1999.
Applicant: **Bryan E Jackson,** Dromana, VIC.

'Southern Sunrise'
Application No: 99/221 Accepted: 19 Oct 1999.
Applicant: **Bryan E Jackson,** Dromana, VIC.

HELIOTROPE
Heliotropium arborescens

'Atlanta' syn **Atlantis**
Application No: 99/301 Accepted: 9 Nov 1999.
Applicant: **RW Rother**, Monbulk, VIC.
Agent**: Tony Kebblewhite trading as Florabundance Wholesale Nursery,** Verrierdale, QLD.

IMPATIENS
Impatiens walleriana

'Codiampca'
Application No: 99/157 Accepted: 27 Oct 1999.
Applicant: **University of Sydney, Plant Breeding Institute,** Cobbitty, NSW.

LAVENDER
Lavandula stoechas

'Bee Bright'
Application No: 99/259 Accepted: 8 Dec 1999.
Applicant: **RJ Cherry**, Kulnura, NSW.

'Bee Brilliant'
Application No: 99/260 Accepted: 8 Dec 1999.
Applicant: **RJ Cherry**, Kulnura, NSW.

'Bee Cool'
Application No: 99/262 Accepted: 8 Dec 1999.
Applicant: **RJ Cherry**, Kulnura, NSW.

'Bee Happy'
Application No: 99/261 Accepted: 8 Dec 1999.
Applicant: **RJ Cherry**, Kulnura, NSW.

'Bella Mauve'
Application No: 99/258 Accepted: 8 Dec 1999.
Applicant: **RJ Cherry**, Kulnura, NSW.

'Bella Pink'
Application No: 99/256 Accepted: 8 Dec 1999.
Applicant: **RJ Cherry**, Kulnura, NSW.

'Bella Purple'
Application No: 99/257 Accepted: 8 Dec 1999.
Applicant: **RJ Cherry**, Kulnura, NSW.

'Bella White'
Application No: 99/255 Accepted: 8 Dec 1999.
Applicant: **RJ Cherry**, Kulnura, NSW.

LUCERNE
Medicago sativa

‘Super 7’
Application No: 99/310 Accepted: 1 Dec 1999.
Applicant: **South Australian Minister for Primary Industries, Natural Resources & Regional Development,** Adelaide, SA.
Agent**: Heritage Seeds Pty Ltd,** Mulgrave, VIC.

‘Venus’
Application No: 99/285 Accepted: 1 Dec 1999.
Applicant: **Department of Agriculture for and on behalf of the State of New South Wales,** Orange, NSW and **Grains Research & Development Corporation,** Barton, ACT and **Australian Wool Research and Promotion Organisation**, Parkville, VIC.
Agent**: South Australian Seedgrowers Cooperative,** Hilton, SA.

LUPIN
Lupinus angustifolius

‘Quilinock’
Application No: 99/230 Accepted: 9 Nov 1999.
Applicant: **Chief Executive Officer, Agriculture Western Australia,** South Perth, WA and **Grains Research & Development Corporation,** Barton, ACT.

OSTEOSPERMUM
Osteospermum ecklonis

‘Sunny Alex’ syn **Alex**
Application No: 99/278 Accepted: 19 Oct 1999.
Applicant: **Bjarne Larsen and Niels Larsen**, Odense, Denmark.
Agent: **Redlands Nursery Pty Ltd,** Redland Bay, QLD.

‘Sunny Caroline’ syn **Caroline**
Application No: 99/280 Accepted: 19 Oct 1999.
Applicant: **Bjarne Larsen and Niels Larsen**, Odense, Denmark.
Agent: **Redlands Nursery Pty Ltd,** Redland Bay, QLD.

‘Sunny Silvia’ syn **Silvia**
Application No: 99/277 Accepted: 19 Oct 1999.
Applicant: **Bjarne Larsen and Niels Larsen**, Odense, Denmark.
Agent: **Redlands Nursery Pty Ltd,** Redland Bay, QLD.

‘Sunny Sonja’ syn **Sonja**
Application No: 99/279 Accepted: 19 Oct 1999.
Applicant: **Bjarne Larsen and Niels Larsen**, Odense, Denmark.
Agent: **Redlands Nursery Pty Ltd,** Redland Bay, QLD.

PAPER DAISY
Bracteantha bracteata

‘Colourburst Gold’
Application No: 99/166 Accepted: 27 Oct 1999.
Applicant: **University of Sydney, Plant Breeding Institute,** Cobbitty, NSW and **Yellow Rock Native Nursery,** Winmalee, NSW.

‘NN-9812AE’
Application No: 99/318 Accepted: 21 Dec 1999.
Applicant: **AJ Newport and Son Pty Ltd,** Winmalee, NSW.

‘NN-B9821A’
Application No: 99/319 Accepted: 21 Dec 1999.
Applicant: **AJ Newport and Son Pty Ltd,** Winmalee, NSW.

‘NN-B9892’
Application No: 99/320 Accepted: 21 Dec 1999.
Applicant: **AJ Newport and Son Pty Ltd,** Winmalee, NSW.

PEACH
Prunus persica

‘Sweet Dream’
Application No: 99/281 Accepted: 19 Oct 1999.
Applicant: **Zaiger’s Inc. Genetics,** Modesto, California, USA.
Agent**: Fleming’s Nurseries & Associates Pty Ltd,** Monbulk, VIC.

PEACH ROOTSTOCK
Prunus hybrid

‘Viking’
Application No: 99/254 Accepted: 18 Nov 1999.
Applicant: **Zaiger’s Inc. Genetics,** Modesto, California, USA.
Agent**: Fleming’s Nurseries & Associates Pty Ltd,** Monbulk, VIC.

PELARGONIUM
Pelargonium tricolor

‘PEL001’
Application No: 99/292 Accepted: 22 Oct 1999.
Applicant: **Frank Hammond,** Narre Warren North,VIC.

PETUNIA
Petunia hybrid

‘Cobink’
Application No: 99/156 Accepted: 27 Oct 1999.
Applicant: **University of Sydney, Plant Breeding Institute,** Cobbitty, NSW.

POINSETTIA
Euphorbia pulcherrima

‘Pepride’
Application No: 99/013 Accepted: 18 Nov 1999.
Applicant: **Paul Ecke Ranch**, Encinitas, California, USA.
Agent**: AJ Newport & Son Pty Ltd,** Winmalee, NSW.

‘Success’
Application No: 99/016 Accepted: 18 Nov 1999.
Applicant: **Paul Ecke Ranch**, Encinitas, California, USA.
Agent**: AJ Newport & Son Pty Ltd,** Winmalee, NSW.

POLYGALA
Polygala myrtifolia var. *grandiflora*

'White Flamingo'
Application No: 99/302 Accepted: 9 Nov 1999.
Applicant: **RW Rother,** Monbulk, VIC.
Agent**: Tony Kebblewhite trading as Florabundance Wholesale Nursery,** Verrierdale, QLD.

POTATO
Solanum tuberosum

'FL 1867'
Application No: 99/186 Accepted: 1 Dec 1999.
Applicant: **Frito-Lay Co**, Rhinelander, Wisconsin, USA.
Agent**: The Smith's Snackfood Company Ltd,** Rydalmere, NSW.

'Smith's Starlight'
Application No: 99/231 Accepted: 18 Nov 1999.
Applicant: **The Smith's Snackfood Company Limited,** Rydalmere, NSW.
Agent**: Agriculture Victoria Services Pty Ltd,** Attwood, VIC.

RIVER WATTLE
Acacia cognata

'UY2'
Application No: 99/343 Accepted: 17 Dec 1999.
Applicant: **Austraflora Pty Ltd**, Yarra Glen, VIC.

'UY3'
Application No: 99/393 Accepted: 23 Dec 1999.
Applicant: **Austraflora Pty Ltd**, Yarra Glen, VIC.

ROSE
Rosa hybrid

'Grandalpha'
Application No: 99/299 Accepted: 9 Nov 1999.
Applicant: **Mr H Schreuders**, Cranbourne, VIC.

'Jachipow' syn **Pretty in White**
Application No: 99/358 Accepted: 17 Dec 1999.
Applicant: **Bear Creek Gardens Inc.,** Delaware, USA.
Agent**: Swane Bros. Pty Ltd,** Narromine, NSW.

'Jachotam' syn **Pretty in Candy**
Application No: 99/360 Accepted: 17 Dec 1999.
Applicant: **Bear Creek Gardens Inc.,** Delaware, USA.
Agent**: Swane Bros. Pty Ltd,** Narromine, NSW.

'Jachotse' syn **Pretty in Yellow**
Application No: 99/361 Accepted: 17 Dec 1999.
Applicant: **Bear Creek Gardens Inc.,** Delaware, USA.
Agent**: Swane Bros. Pty Ltd,** Narromine, NSW.

'Jacmobli' syn **Pretty in Pink**
Application No: 99/359 Accepted: 17 Dec 1999.
Applicant: **Bear Creek Gardens Inc.,** Delaware, USA.
Agent**: Swane Bros. Pty Ltd,** Narromine, NSW.

'Jacshaq'
Application No: 99/363 Accepted: 17 Dec 1999.
Applicant: **Bear Creek Gardens Inc.,** Delaware, USA.
Agent: **Swane Bros. Pty Ltd,** Narromine, NSW.

'Jactemp' syn **Pretty in Red**
Application No: 99/357 Accepted: 17 Dec 1999.
Applicant: **Bear Creek Gardens Inc.,** Delaware, USA.
Agent**: Swane Bros. Pty Ltd,** Narromine, NSW.

'Meixemat'
Application No: 99/293 Accepted: 22 Oct 1999.
Applicant: **Meilland International,** Le Luc en Provence, France.
Agent**: H A Oakes and Son**, Carrum Downs, VIC.

'Nirpeter'
Application No: 99/287 Accepted: 8 Nov 1999.
Applicant: **Lux Riviera srl,** Late di Ventimiglia (IM), Italy.
Agent**: Grandiflora Nurseries Pty Ltd,** Cranbourne, VIC.

'Poulagun'
Application No: 99/378 Accepted: 21 Dec 1999.
Applicant: **Poulsen Roser ApS,** Central Point, Oregon, USA.
Agent**: Griffith Hack and Company,** Melbourne, VIC.

'Poulberin'
Application No: 99/377 Accepted: 21 Dec 1999.
Applicant: **Poulsen Roser ApS,** Central Point, Oregon, USA.
Agent**: Griffith Hack and Company,** Melbourne, VIC.

'Pouldace'
Application No: 99/376 Accepted: 21 Dec 1999.
Applicant: **Poulsen Roser ApS,** Central Point, Oregon, USA.
Agent**: Griffith Hack and Company,** Melbourne, VIC.

'Pouldra'
Application No: 99/373 Accepted: 21 Dec 1999.
Applicant: **Poulsen Roser ApS,** Central Point, Oregon, USA.
Agent**: Griffith Hack and Company,** Melbourne, VIC.

'Poulgrad'
Application No: 99/374 Accepted: 21 Dec 1999.
Applicant: **Poulsen Roser ApS,** Central Point, Oregon, USA.
Agent**: Griffith Hack and Company,** Melbourne, VIC.

'Poulisab'
Application No: 99/379 Accepted: 21 Dec 1999.
Applicant: **Poulsen Roser ApS,** Central Point, Oregon, USA.
Agent**: Griffith Hack and Company,** Melbourne, VIC.

'Poulmanti'
Application No: 99/384 Accepted: 21 Dec 1999.
Applicant: **Poulsen Roser ApS,** Central Point, Oregon, USA.
Agent**: Griffith Hack and Company,** Melbourne, VIC.

'Poulna'
Application No: 99/382 Accepted: 21 Dec 1999.
Applicant: **Poulsen Roser ApS,** Central Point, Oregon, USA.
Agent**: Griffith Hack and Company,** Melbourne, VIC.

'Poulorin'
Application No: 99/380 Accepted: 21 Dec 1999.
Applicant: **Poulsen Roser ApS,** Central Point, Oregon, USA.
Agent**: Griffith Hack and Company,** Melbourne, VIC.

'Poulpear'
Application No: 99/375 Accepted: 21 Dec 1999.
Applicant: **Poulsen Roser ApS,** Central Point, Oregon, USA.
Agent**: Griffith Hack and Company,** Melbourne, VIC.

'Poulsail'
Application No: 99/381 Accepted: 21 Dec 1999.
Applicant: **Poulsen Roser ApS,** Central Point, Oregon, USA.
Agent**: Griffith Hack and Company,** Melbourne, VIC.

'Poulsiana'
Application No: 99/385 Accepted: 21 Dec 1999.
Applicant: **Poulsen Roser ApS,** Central Point, Oregon, USA.
Agent**: Griffith Hack and Company,** Melbourne, VIC.

'Poulsolo'
Application No: 99/383 Accepted: 21 Dec 1999.
Applicant: **Poulsen Roser ApS,** Central Point, Oregon, USA.
Agent**: Griffith Hack and Company,** Melbourne, VIC.

'Poulzin'
Application No: 99/386 Accepted: 21 Dec 1999.
Applicant: **Poulsen Roser ApS,** Central Point, Oregon, USA.
Agent**: Griffith Hack and Company,** Melbourne, VIC.

'Red Iceberg'
Application No: 99/274 Accepted: 18 Oct 1999.
Applicant: **Prophyl Pty Ltd,** Austins Ferry, TAS & **Swane Bros Pty Ltd,** Dural, NSW.

'Sunlampo' syn **Bellisima**
Application No: 99/289 Accepted: 22 Oct 1999.
Applicant: **Frank Bart Schuurman,** Whenuapia, New Zealand.
Agent**: Grandiflora Nurseries Pty Ltd,** Cranbourne, VIC.

'Sunpari' syn **La Parisienne**
Application No: 99/288 Accepted: 22 Oct 1999.
Applicant: **Frank Bart Schuurman,** Whenuapia, New Zealand.
Agent**: Grandiflora Nurseries Pty Ltd,** Cranbourne, VIC.

'Twoaebi'
Application No: 99/223 Accepted: 19 Oct 1999.
Applicant: **Jeremiah Forster Twomey,** Leucadia, California, USA.
Agent**: Anthony Tesselaar Plants Pty Ltd,** Silvan, VIC.

'Twojoan'
Application No: 99/222 Accepted: 19 Oct 1999.
Applicant: **Jeremiah Forster Twomey,** Leucadia, California, USA.
Agent**: Anthony Tesselaar Plants Pty Ltd,** Silvan, VIC.

'Twopaul'
Application No: 99/224 Accepted: 19 Oct 1999.
Applicant: **Jeremiah Forster Twomey,** Leucadia, California, USA.
Agent**: Anthony Tesselaar Plants Pty Ltd,** Silvan, VIC.

'Twoyel'
Application No: 99/225 Accepted: 19 Oct 1999.
Applicant: **Jeremiah Forster Twomey,** Leucadia, California, USA.
Agent**: Anthony Tesselaar Plants Pty Ltd,** Silvan, VIC.

'Wekplapic' syn **Centenary of Federation**
Application No: 99/334 Accepted: 9 Dec 1999.
Applicant: **Weeks Wholesale Rose Grower, Inc.,** California, USA.
Agent**: Swane Bros. Pty Ltd,** Narromine, NSW.

SAND COUCH
Sporobolus virginicus

'Ozlawn'
Application No: 99/284 Accepted: 22 Oct 1999.
Applicant: **Todd Layt,** Clarendon, NSW.

SUTERA
Sutera cordata

'Bridal Showers'
Application No: 99/244 Accepted: 19 Oct 1999.
Applicant: **Pixie Plants,** Devon Meadows, VIC.

'Gold'n Pearls'
Application No: 99/300 Accepted: 9 Nov 1999.
Applicant: **RW Rother,** Monbulk, VIC.
Agent**: Tony Kebblewhite trading as Florabundance Wholesale Nursery,** Verrierdale, QLD.

'Lavender Storm'
Application No: 99/303 Accepted: 9 Nov 1999.
Applicant: **RW Rother,** Monbulk, VIC.
Agent**: Tony Kebblewhite trading as Florabundance Wholesale Nursery,** Verrierdale, QLD.

TEA TREE
Leptospermum hybrid

'Dreamtime'
Application No: 99/390 Accepted: 23 Dec 1999.
Applicant: **Peter Ollerenshaw,** Bungendore, NSW.

'Love Affair'
Application No: 99/391 Accepted: 23 Dec 1999.
Applicant: **Peter Ollerenshaw,** Bungendore, NSW.

'Outrageous'
Application No: 99/389 Accepted: 23 Dec 1999.
Applicant: **Peter Ollerenshaw,** Bungendore, NSW.

'Pageant'
Application No: 99/392 Accepted: 23 Dec 1999.
Applicant: **Peter Ollerenshaw,** Bungendore, NSW.

'White Wave'
Application No: 99/388 Accepted: 23 Dec 1999.
Applicant: **Peter Ollerenshaw,** Bungendore, NSW.

WHEAT
Triticum aestivum

'Dennis'
Application No: 99/267 Accepted: 19 Nov 1999.
Applicant: **CSIRO Plant Industry,** Canberra, ACT and **Grains Research & Development Corporation,** Barton, ACT.

'Karlgarin'
Application No: 99/226 Accepted: 9 Nov 1999.
Applicant: **Chief Executive Officer, Agriculture Western Australia,** South Perth, WA and **Grains Research & Development Corporation,** Barton, ACT.

'Lang'
Application No: 99/325 Accepted: 9 Dec 1999.
Applicant: **State of Queensland through its Department of Primary Industries,** Brisbane, QLD and **Grains Research & Development Corporation,** Barton, ACT.

'Petrie'
Application No: 99/326 Accepted: 9 Dec 1999.
Applicant: **State of Queensland through its Department of Primary Industries,** Brisbane, QLD and **Grains Research & Development Corporation,** Barton, ACT.

'WW2449'
Application No: 99/162 Accepted: 18 Nov 1999.
Applicant: **Department of Agriculture for and on behalf of the State of New South Wales,** Orange, NSW and **Grains Research & Development Corporation,** Barton, ACT.

'Wylah'
Application No: 99/163 Accepted: 18 Nov 1999.
Applicant: **Department of Agriculture for and on behalf of the State of New South Wales,** Orange, NSW and **Grains Research & Development Corporation,** Barton, ACT.

WHITE CLOVER
Trifolium repens

'Grasslands Bounty'
Application No: 98/080 Accepted: 1 Dec 1999.
Applicant: **NZ Pastoral Agriculture Research Institute Ltd,** Palmerston North, New Zealand.
Agent**: AgResearch Grasslands,** Bowna via Albury, NSW.

DESCRIPTIONS

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

*	=	Variety used as comparator
Agent	=	Australian agent acting on behalf of an applicant (usually where application is from overseas).
ca.	=	about
DMRT	=	Duncan's Multiple Range Test
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
PVJ	=	Plant Varieties Journal
n/a	=	not available
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
S-N-K test	=	Student-Newman-Keuls test
(Þ	=	variety(s) for which PBR has been granted

ALSTROEMERIA
Alstroemeria hybrid

'Stalauli' syn Laura
Application No: 97/253 Accepted: 11 Nov 1997.
Applicant: **Van Staaveren BV,** Aalsmeer, The Netherlands.
Agent: **F & I Baguley Flower and Plant Growers,** Clayton South, VIC.

Characteristics (Table 1, Figure 7) Plant: stem length long, stem thickness medium, density of foliage medium. Leaf: shape narrow elliptic, longitudinal axis of blade recurved, length medium, width medium. Inflorescence: umbel branch number medium, length long, pedicel length medium. Flower: colour red purple (red), size large, tepal spread medium, outer tepal shape broad obovate, depth of emargination deep, stripes absent, colour red purple RHS 70B at centres and margins, red RHS 58B at apex and red purple RHS 70D at base, inner lateral tepals shape obovate, colour yellow RHS 5B-C at centre, red purple RHS 70D at base and red RHS 58A at apex; stripes few to medium; inner median tepal yellow colour absent;, stripes present. Stamens: filament red purple (red), spots absent, anther

colour red brown (brownish). Ovary: anthocyanin slight (strong), style red purple, stigma red purple, spots absent. (Note: data in parenthesis denotes Dutch observations, all RHS numbers referred to in local observation were based on the 1986 edition).

Origin and Breeding Controlled pollination: seed parent 82R473-6 x pollen parent 86F1115-3 in a planned breeding program at the applicant's nursery at Aalsmeer, The Netherlands. The parents are propriety breeding lines developed by the applicant. Selection criteria: 'Stalauli' was chosen on the basis of flower characteristics and growth habit. Propagation: a number of mature stock plants were generated from the original seedling by tissue culture through 10 generations to confirm uniformity and stability. 'Stalauli' will be commercially propagated by tissue culture. Breeder: Van Staaveren BV, Aalsmeer, The Netherlands.

Choice of Comparators 'Stapula'(Φ, 'Sydney'(Φ, and 'Stajugro' were initially considered as the similar varieties of common knowledge based on previous published descriptions in *Plant Varieties Journal*. 'Sydney'(Φ (*PVJ* Vol. 7 No. 1) was chosen because of similarities in flower colour and 'Stapula'(Φ (*PVJ* Vol. 10 No. 2) was chosen because arose from the same breeding program. 'Stajugro' (*PVJ* Vol. 3 No. 4) was rejected because of the presence of many stripes in the outer tepals, which is distinct from the candidate variety.

Comparative Trial Comparators: 'Stapula'(Φ and 'Sydney'(Φ. Comparisons of most of the characteristics are based on Dutch trials, which were assessed under conditions of controlled environment in glasshouses. Detailed flower descriptions of the candidate variety are based on plants growing in soil in a multispan polyhouse in Bunyip, VIC. Flowers from these plants were cut in bud in Oct 1999 and transported to Rye VIC, and placed in a solution of 5% sugar and 1 ml/l chlorine bleach. The flowers were assessed three to four days later.

Prior Applications and Sales

Country	Year	Current Status	Name Applied
The Netherlands	1995	Granted	'Stalauli'
EU	1997	Granted	'Stalauli'
Japan	1997	Applied	'Stalauli'
USA	1997	Granted	'Stalauli'
New Zealand	1997	Granted	'Stalauli'
Colombia	1998	Applied	'Stalauli'

'Stalauli' was first sold in The Netherlands in 1996.

Description: **David Nichols**, Rye, VIC.

Table 1 *Alstroemeria* Varieties

	'Stalauli'	*'Sydney'(Φ	*'Stapula'(Φ
STEM CHARACTERISTICS			
length	long	medium	medium to tall
thickness	medium	medium	thick
density of foliage	medium	medium	medium
LEAF CHARACTERISTICS			
length	medium	medium	long
width	medium	medium	broad
shape of blade	narrow elliptic	narrow elliptic	narrow ovate
longitudinal axis of blade	recurved	recurved	straight
INFLORESCENCE CHARACTERISTICS			
number of umbel branches	medium	medium	medium
length of umbels	long	short	long
pedicel length	medium	short	short
FLOWER CHARACTERISTICS			
main colour	red purple	red purple	red purple
size	large	medium	large
spread of tepals	medium	medium	broad
OUTER TEPAL CHARACTERISTICS			
shape of blade	broad obovate	obovate	broad obovate
depth of emargination	deep	n/a	n/a
main colour (RHS)	70B, 58A	70B-71B	72B-72C
stripes	absent	absent	absent
number of stripes	absent	absent	absent
INNER LATERAL TEPAL CHARACTERISTICS			
shape of blade	obovate	obovate	obovate
yellow colour (RHS)	5B-5C	3A	5C
number of stripes	few to medium	many	many
stripe thickness	small to medium	n/a	medium
INNER MEDIAN TEPAL CHARACTERISTICS			
yellow colour	absent	absent	absent
stripes	present	present	present
OTHER FLOWER CHARACTERISTICS			
filament colour	red purple	red purple	red purple
filament spots	absent	absent	absent
anther colour	red brown	yellow green	yellow green
style colour	red purple	n/a	green white
stigma colour	red purple	n/a	red purple
spots on stigma	absent	absent	absent
anthocyanin in ovary	slight	medium	strong

'Starexan' syn Xandra

Application No: 97/241 Accepted: 11 Nov 1997.
Applicant: **Van Staaveren BV,** Aalsmeer, The Netherlands.
Agent: **F & I Baguley Flower and Plant Growers,** Clayton South, VIC.

Characteristics (Table 2, Figure 8) Plant: stem length long, stem thickness thin, density of foliage dense. Leaf: shape narrow ovate, longitudinal axis of blade recurved, length long, width medium. Inflorescence: umbel branch number medium, length long, pedicel length long. Flower: colour red (orange red), size medium, tepal spread medium, outer tepal shape obovate, depth of emargination medium, stripes very few, colour red RHS 45A at the apex, RHS 45B at the centre, RHS 54A at the margins and RHS 54D at the base; inner lateral tepals shape obovate, colour yellow RHS 14A

at the centre, red RHS 45A-B at the apex and RHS 54B at the base; stripes number medium, thickness medium to thick; inner median tepal yellow colour absent, stripes present. Stamens: filament red (orange red), spots absent, anther colour red brown (brownish). Ovary: anthocyanin slight (medium), style red pink, stigma red pink, spots absent. (Note: data in parenthesis denotes Dutch observations, all RHS numbers referred to in local observation were based on the 1986 edition).

Origin and Breeding Controlled pollination: seed parent 89T477-1 x pollen parent 86F1382-1 in a planned breeding program at the applicant's nursery at Aalsmeer, The Netherlands. The parents are propriety breeding lines developed by the applicant. Selection criteria: 'Starexan' was chosen on the basis of flower characteristics and growth habit. Propagation: a number of mature stock plants were generated from the original seedling by tissue culture through 10 generations to confirm uniformity and stability. 'Starexan' will be commercially propagated by tissue culture. Breeder: Van Staaveren BV, Aalsmeer, The Netherlands.

Choice of Comparators 'Miami' and 'Stalona'Φ were selected as the similar varieties of common knowledge based on previous published descriptions in *Plant Varieties Journal*. 'Miami' (PVJ Vol. 12 No. 2) was chosen because of similarities in flower colour and 'Stalona'Φ (*PVJ* Vol. 10 No. 4) because arose from the same breeding program.

Comparative Trial Comparators: 'Miami' and 'Stalona'Φ. Comparisons of most of the characteristics are based on Dutch trials, which were assessed under conditions of controlled environment in glasshouses. Detailed flower descriptions of the candidate variety are based on plants growing in soil in a multispan polyhouse in Bunyip, VIC. Flowers from these plants were cut in bud in Oct 1999 and transported to Rye VIC, and placed in a solution of 5% sugar and 1 ml/l chlorine bleach. The flowers were assessed three to four days later.

Prior Applications and Sales

Country	Year	Current Status	Name Applied
The Netherlands	1995	Granted	'Starexan'
EU	1997	Granted	'Starexan'
Japan	1997	Applied	'Starexan'
USA	1997	Granted	'Starexan'
South Africa	1998	Applied	'Starexan'
Colombia	1998	Applied	'Starexan'

'Starexan' was first sold in The Netherlands in 1996.

Description: **David Nichols**, Rye, VIC.

Table 2 *Alstroemeria* Varieties

	'Starexan'	*'Miami'	*'Stalona'Φ
STEM CHARACTERISTICS			
length	long	medium	medium
thickness	thin	thin	medium
density of foliage	dense	medium to dense	dense
LEAF CHARACTERISTICS			
length	long	medium	medium
width	medium	broad	medium
shape of blade	narrow obovate	narrow elliptic	narrow elliptic
longitudinal axis of blade	recurved	recurved	recurved
INFLORESCENCE CHARACTERISTICS			
number of umbel branches	medium	few	medium
length of umbels	long	medium	long
pedicel length	long	long	short
FLOWER CHARACTERISTICS			
main colour	red	red	red
size	medium	large	medium
spread of tepals	medium	medium to broad	medium to broad
OUTER TEPAL CHARACTERISTICS			
shape of blade	obovate	obovate	obovate
depth of emargination	medium	very deep	medium
main colour (RHS)	45B, 54A	53C-53D	46A, 47B, 51D
stripes	present	present	absent
number of stripes	very few	very few	absent
INNER LATERAL TEPAL CHARACTERISTICS			
shape of blade	obovate	obovate	elliptic
yellow colour (RHS)	14A	14A	8C
number of stripes	medium	medium to many	few
stripe thickness	medium to thick	medium to thick	medium
INNER MEDIAN TEPAL CHARACTERISTICS			
yellow colour	absent	absent	present
stripes	present	present	present
OTHER FLOWER CHARACTERISTICS			
filament colour	red	orange red	red purple
filament spots	absent	absent	n/a
anther colour	red brown	brownish	greyed orange
style colour	red pink	orange red	red purple
stigma colour	red pink	orange red	red purple
spots on stigma	absent	absent	n/a
anthocyanin in ovary	slight	very weak to weak	weak

'Testapink' syn Pink Diamond

Application No: 97/245 Accepted: 11 Nov 1997.
Applicant: **Van Staaveren BV,** Aalsmeer, The Netherlands.
Agent: **F & I Baguley Flower and Plant Growers,** Clayton South, VIC.

Characteristics (Table 3, Figure 9) Plant: stem length long, stem thickness thick, density of foliage medium to dense. Leaf: shape narrow elliptic, longitudinal axis of blade recurved, length long, width medium. Inflorescence: umbel branch number medium, length medium, pedicel length

short. Flower: colour white and purple pink, size large, tepal spread medium, outer tepal shape broad obovate, depth of emargination shallow, stripes very few (absent), colour white RHS 155C at margins and base red pink RHS 68A-B at the apex and red RHS 58A-B at the centre; inner lateral tepals shape elliptic, colour yellow RHS 4C-D at centre and base, red purple RHS 68A-B at the apex, stripes medium thickness small to medium; inner median tepal yellow colour absent, stripes present. Stamens: filament purple pink, spots present, anther colour greenish. Ovary: anthocyanin weak (medium), style purple pink, stigma purple pink, spots absent. (Note: data in parenthesis denotes Dutch observations, all RHS numbers referred to in local observation were based on the 1986 edition).

Origin and Breeding Spontaneous mutation: *Alstroemeria* 'Stamond'Φ at the applicant's nursery at Aalsmeer, The Netherlands. The parent 'Stamond'Φ is a propriety variety developed by the applicant. Selection criteria: 'Testapink' was chosen on the basis of flower characteristics and growth habit. Propagation: a number of mature stock plants were generated from the original sport by tissue culture through 10 generations to confirm uniformity and stability. 'Testapink' will be commercially propagated by tissue culture. Breeder: Van Staaveren BV**,** Aalsmeer, The Netherlands.

Choice of Comparators 'Vienna'Φ, 'Stamond'Φ, 'Stalbel'Φ, 'Cavalier', and 'Alaska'Φ were initially considered as the similar varieties of common knowledge based on previous published descriptions in *Plant Varieties Journal*. 'Vienna'Φ (*PVJ* Vol. 9 No. 3) was chosen because of similarities in flower colour and 'Stamond'Φ was included (*PVJ* Vol. 9 No. 3) because it is the parental variety. 'Stalbel'Φ (*PVJ* Vol. 3 No. 4) and 'Cavalier' *PVJ* Vol. 7 No. 2) were rejected because of dark yellow colour in the inner lateral tepals and 'Alaska'Φ described in (*PVJ* Vol.7 No. 4) because of paucity of red purple tints.

Comparative Trial Comparators: 'Vienna'Φ and 'Stamond'Φ. Comparisons of most of the characteristics are based on Dutch trials, which were assessed under conditions of controlled environment in glasshouses. Detailed flower descriptions of the candidate variety are based on plants growing in soil in a multispan polyhouse in Bunyip, VIC. Flowers from these plants were cut in bud in Oct 1999 and transported to Rye VIC, and placed in a solution of 5% sugar and 1 ml/l chlorine bleach. The flowers were assessed three to four days later.

Prior Applications and Sales

Country	Year	Current Status	Name Applied
EU	1997	Applied	'Testapink'
USA	1997	Granted	'Testapink'
South Africa	1998	Applied	'Testapink'

No prior sales.

Description: **David Nichols**, Rye, VIC.

Table 3 *Alstroemeria* Varieties

	'Testapink'	*'Vienna'Φ	*'Stamond'Φ
STEM CHARACTERISTICS			
length	long	medium	long
thickness	thick	thick	medium to thick
density of foliage	medium to dense	medium to dense	dense
LEAF CHARACTERISTICS			
length	long	short	long
width	medium	narrow	broad
shape of blade	narrow elliptic	narrow elliptic	narrow ovate
longitudinal axis of blade	recurved	straight	straight
INFLORESCENCE CHARACTERISTICS			
number of umbel branches	medium	medium	medium
length of umbels	medium	medium	long
pedicel length	short	medium	medium
FLOWER CHARACTERISTICS			
main colour	white and pink	white and pink	white
size	large	medium	large
spread of tepals	medium	medium	broad
OUTER TEPAL CHARACTERISTICS			
shape of blade	broad obovate	broad obovate	broad obovate
depth of emargination	shallow	n/a	n/a
main colour (RHS)	155C, 68A-B, 58B-C	155D, 70B, 70D	155D
stripes	present	absent	present
number of stripes	very few	absent	very few
INNER LATERAL TEPAL CHARACTERISTICS			
shape of blade	elliptic	broad elliptic	elliptic
yellow colour(RHS)	4C-D	12A	4C
number of stripes	medium	medium	medium
stripe thickness	small to medium	medium	medium
INNER MEDIAN TEPAL CHARACTERISTICS			
yellow colour	absent	present	absent
stripes	present	present	present
OTHER FLOWER CHARACTERISTICS			
filament colour	purple pink	purple pink	white
filament spots	present	absent	absent
anther colour	greenish	brownish	greenish
style colour	purple pink	purple pink	white
stigma colour	purple pink	purple pink	white
spots on stigma	absent	absent	absent
anthocyanin in ovary	weak	weak	absent

ASTER
Aster hybrid

'Dark Milka'
Application No: 98/260 Accepted: 18 Jan 1999.
Applicant: **Nachtvlinder B.V.,** Ter Aar, The Netherlands.
Agent: **Yates Botanicals Pty Ltd,** Somersby, NSW.

Characteristics (Table 4, Figure 11) Plant: habit upright, height medium. Stem: internodes medium, pubescence absent-very weak, anthocyanin at internode and leaf axil present. Leaf: long (average length 139mm), shape elliptic, dentations at distal part of margin, apex acute, anthocyanin absent, sessile, pubescence absent. Inflorescence: capitulum, distributed along the axis, more than two whorls of ray florets. Ray florets: very many, attitude horizontal, length medium, shape narrow elliptic, cross sectional shape concave, curvature of longitudinal axis and tip straight, apex acute, dentation of apex absent, colour of upper side violet (RHS 87A-B, 1995), colour less intense towards base. Involucre: many bracts, length medium, shape funnelform, bract position free, bract overlapping medium.

Origin and Breeding Spontaneous mutation: 'Milka'. The parent is characterised by having a violet flower corresponding to RHS 85A (1995). Following mutation, an additional cycle of selection took place in Ter Aar, The Netherlands in 1994. Selection criteria: flower colour. Propagation: stock plants were created from cuttings and micropropagation and were found to be uniform and stable through many generations. 'Dark Milka' will be commercially propagated by vegetative cuttings from micropropagated motherstock created from the stock plants. Breeder: P.J.F. Akerboom, Nachtvlinder B.V, Holland.

Choice of Comparators 'Milka' and 'Karmijn Milka' were used for the comparative trial as these varieties have similar flower forms and colours and arise from the same breeding program. 'Milka' is also the parental variety. No other similar varieties were identified.

Comparative Trial Comparators: 'Milka', 'Karmijn Milka'. Location: Somersby, NSW, autumn-spring 1999. Conditions: trial initially grown under glass with long days provided by incandescent lights until flower initiation in Aug 1999, then finished in open beds in full sun, plants propagated from cutting and micropropagation, rooted cuttings planted into 150mm pots filled with soilless potting mix (pine bark & copra peat base), nutrition maintained with slow release fertilisers, pest and disease treatments applied as required. Trial design: 40 pots of each variety arranged in a completely randomised design. Measurements: from ten plants at random. One sample per plant.

Prior Applications and Sales

Country	Year	Current Status	Name Applied
The Netherlands	1994	Surrendered	'Dark Milka'
EU	1996	Granted	'Dark Milka'
Israel	1996	Granted	'Dark Milka'
Japan	1996	Applied	'Dark Milka'
South Africa	1998	Granted	'Dark Milka'

First sold in The Netherlands in 1996. First sold in Australia in 1998.

Description: **Ian Paananen, Crop & Nursery Services**, Central Coast, NSW.

'Karmijn Milka'
Application No: 98/262 Accepted: 18 Jan 1999.
Applicant: **Nachtvlinder B.V.,** Ter Aar, The Netherlands.
Agent: **Yates Botanicals Pty Ltd,** Somersby, NSW.

Characteristics (Table 4, Figure 11) Plant: habit upright, height short-medium. Stem: internodes medium, pubescence absent-very weak, anthocyanin at internode and leaf axil present. Leaf: long (average length 138mm), shape elliptic, dentations at distal part of margin, apex acute, anthocyanin absent, sessile, pubescence absent. Inflorescence: capitulum, distributed distally along axis, more than two whorls of ray florets. Ray florets: very many, attitude semi-upright, length medium, shape narrow elliptic, cross sectional shape concave, curvature of longitudinal axis and tip straight, apex acute, dentation of apex absent, colour of upper side purple (RHS 78B-C, 1995), even distribution of intensity of colour. Involucre: many bracts, length medium, shape campanulate, bract position free, bract overlapping medium.

Origin and Breeding Spontaneous mutation: 'Milka'. The parent is characterised by having a violet flower corresponding to RHS 85A (1995). Following mutation, an additional cycle of selection took place in Ter Aar, The Netherlands in 1994. Selection criteria: flower colour. Propagation: stock plants were created from cuttings and micropropagation and were found to be uniform and stable through many generations. 'Karmijn Milka' will be commercially propagated by vegetative cuttings from micropropagated motherstock created from the stock plants. Breeder: P.J.F. Akerboom, Nachtvlinder B.V, Holland.

Choice of Comparators 'Milka', 'Dark Milka', 'Karmijn' and 'Mauve Parade' were used for the comparative trial as these varieties have similar flower forms and colours and arise from the same breeding program. 'Milka' is also the parental variety. No other similar varieties were identified.

Comparative Trial Comparators: 'Milka', 'Dark Milka', 'Karmijn' and 'Mauve Parade'. Location: Somersby, NSW, autumn-spring 1999. Conditions: trial initially grown under glass with long days provided by incandescent lights until flower initiation in Aug 1999, then finished in open beds in full sun, plants propagated from cutting and micropropagation, rooted cuttings planted into 150mm pots filled with soilless potting mix (pine bark & copra peat base), nutrition maintained with slow release fertilisers, pest and disease treatments applied as required. Trial design: 40 pots of each variety arranged in a completely randomised design. Measurements: from ten plants at random. One sample per plant.

Prior Applications and Sales

Country	Year	Current Status	Name Applied
EU	1996	Applied	'Karmijn Milka'
Israel	1996	Applied	'Karmijn Milka'
South Africa	1998	Withdrawn	'Karmijn Milka'

First sold in The Netherlands in 1996. First sold in Australia in 1998.

Description: **Ian Paananen, Crop & Nursery Services**, Central Coast, NSW.

'Milka'

Application No: 97/312 Accepted: 25 Nov 1997.
Applicant: **Nachtvlinder B.V.,** Ter Aar, The Netherlands.
Agent: **Yates Botanicals Pty Ltd,** Somersby, NSW.

Characteristics (Table 4, Figure 11) Plant: habit upright, height short-medium. Stem: internodes medium, pubescence absent-very weak, anthocyanin at internode and leaf axil present. Leaf: long (average length 139mm), shape elliptic, dentations at distal part of margin, apex acute, anthocyanin absent, sessile, pubescence absent. Inflorescence: capitulum, distributed along the axis, more than two whorls of ray florets. Ray florets: very many, attitude semi-upright, length medium, shape narrow elliptic, cross sectional shape concave, curvature of longitudinal axis and tip straight, apex acute, dentation of apex absent, colour of upper side violet (RHS 83A, 1995), even distribution of intensity of colour. Involucre: many bracts, length medium, shape funnelform, bract position free, bract overlapping weak.

Origin and Breeding Controlled pollination: seed parent Butterfly series (*A. pringlei x A. novi-belgii*) x pollen parent "P. series" in a planned breeding program. The parents are characterised by having single, blue flowers. Following the cross, a single cycle of selection took place in Ter Aar, The Netherlands in 1991. Selection criteria: many whorls of ray florets, flower colour. Propagation: stock plants were created from cuttings and micropropagation and were found to be uniform and stable through many generations. 'Milka' will be commercially propagated by vegetative cuttings from micropropagated motherstock created from the stock plants. Breeder: P.J.F. Akerboom, Nachtvlinder B.V, The Netherlands.

Choice of Comparators 'Karmijn' and 'Karmijn Milka' were used for the comparative trial as these varieties have similar flower forms and colours and arise from the same breeding program. The parents were excluded on the basis of their single flower form. No other similar varieties were identified.

Comparative Trial Comparators: 'Karmijn', 'Karmijn Milka'. Location: Somersby, NSW, autumn-spring 1999. Conditions: trial initially grown under glass with long days provided by incandescent lights until flower initiation in Aug 1999, then finished in open beds in full sun, plants propagated from cutting and micropropagation, rooted cuttings planted into 150mm pots filled with soilless potting mix (pine bark & copra peat base), nutrition maintained with slow release fertilisers, pest and disease treatments applied as required. Trial design: 40 pots of each variety arranged in a completely randomised design. Measurements: from ten plants at random. One sample per plant.

Prior Applications and Sales

Country	Year	Current Status	Name Applied
The Netherlands	1993	Granted	'Milka'
Germany	1994	Granted	'Milka'
Israel	1994	Granted	'Milka'
Japan	1996	Applied	'Milka'
USA	1996	Granted	'Milka'
South Africa	1998	Withdrawn	'Milka'

First sold in The Netherlands in 1993. First sold in Australia in 1998.

Description: **Ian Paananen, Crop & Nursery Services**, Central Coast, NSW.

'Peter's White'

Application No: 98/261 Accepted: 18 Jan 1999.
Applicant: **Nachtvlinder B.V.,** Ter Aar, The Netherlands.
Agent: **Yates Botanicals Pty Ltd,** Somersby, NSW.

Characteristics (Table 4, Figure 11) Plant: habit upright, height short-medium. Stem: internodes medium, pubescence absent-very weak, anthocyanin at internode and leaf axil present. Leaf: long (average length 121mm), shape elliptic, dentations at distal part of margin, apex acute, anthocyanin absent, sessile, pubescence absent. Inflorescence: capitulum, distributed along the axis, more than two whorls of ray florets. Ray florets: very many, attitude semi-upright to horizontal, length medium, shape narrow elliptic, cross sectional shape concave, curvature of longitudinal axis and tip straight, apex acute, dentation of apex present, colour of upper side white (RHS 155D, 1995), even distribution of intensity of colour. Involucre: many bracts, length medium, shape funnelform, bract position free, bract overlapping strong.

Origin and Breeding Controlled pollination: seed parent Butterfly series (*A. pringlei x A. novi-belgii*) x pollen parent "P. series" in a planned breeding program. The parents are characterised by having single, white flowers. Following the cross, a single cycle of selection took place in Ter Aar, The Netherlands in 1994. Selection criteria: many whorls of ray florets, flower colour. Propagation: stock plants were created from cuttings and micropropagtion and were found to be uniform and stable through many generations. 'Peter's White' will be commercially propagated by vegetative cuttings from micropropagated motherstock created from the stock plants. Breeder: P.J.F. Akerboom, Nachtvlinder B.V, Holland.

Choice of Comparators 'Milka', 'Dark Milka', 'Karmijn Milka', 'Karmijn' and 'Mauve Parade' were used for the comparative trial as these varieties have similar flower forms and vegetative traits and arise from the same breeding programme. The parents were excluded on the basis of their single flower form. No other similar double varieties with white colour were identified.

Comparative Trial Comparators: 'Milka', 'Dark Milka', 'Karmijn Milka', 'Karmijn' and 'Mauve Parade'. Location: Somersby, NSW, autumn-spring 1999. Conditions: trial initially grown under glass with long days provided by incandescent lights until flower initiation in Aug 1999, then finished in open beds in full sun, plants propagated from cutting and micropropagation, rooted cuttings planted into 150mm pots filled with soilless potting mix (pine bark & copra peat base), nutrition maintained with slow release fertilisers, pest and disease treatments applied as required. Trial design: 40 pots of each variety arranged in a completely randomised design. Measurements: from ten plants at random. One sample per plant.

Prior Applications and Sales

Country	Year	Current Status	Name Applied
EU	1995	Applied	'Peter's White'
Israel	1996	Granted	'Peter's White'
Japan	1996	Applied	'Peter's White'
USA	1997	Granted	'Peter's White'
South Africa	1998	Granted	'Peter's White'

First sold in The Netherlands in 1996. First sold in Australia in 1998.

Description: **Ian Paananen, Crop & Nursery Services**, Central Coast, NSW.

Table 4 *Aster* varieties

	'Milka'	'Dark Milka'	'Peter's White'	'Karmijn Milka'	*'Karmijn'	*'Mauve Parade'
PLANT HEIGHT (cm) LSD (P≤0.01) = 8.7						
mean	43 a	43.8 a	40.8 a	43.2 a	38.4 a	66.9 b
std deviation	8.1	8.4	7.4	6.4	4.1	10.1
LEAF DENTATIONS	distal part of margin	distal part of margin	distal part of margin	distal part of margin	absent or weak expression distally	distal part of margin; very weak proximally
DISTRIBUTION OF FLOWER HEADS	spread along axis	spread along axis	spread along axis	at distal part only	spread along axis	spread along axis
INFLORESCENCE DIAMETER (mm) LSD (P≤0.01) = 2.4						
mean	32.3 a	31.4 a	30.4 a	29.7 a	27.1 b	35.0 c
std deviation	1.4	2.5	2.9	2.0	1.7	1.8
RAY FLORET						
attitude	semi-upright	semi-upright to horizontal	semi-upright to horizontal	semi-upright	semi-upright	semi-upright
shape in cross section	concave	concave	concave	concave	straight	concave
dentation of apex	absent	absent	present	absent	present	absent
colour of upper side (RHS, 1995)	85A	87A-B	155D	78B-C	78A	80A-81A
distribution of colour intensity	even	lighter at base	even	even	even	even
RAY FLORET LENGTH (mm) LSD (P≤0.01) = 1.1						
mean	11.0 b	10.9 b	11.4 ab	10.5 b	10.4 b	12.4 a
std deviation	0.8	1.0	1.1	0.8	0.7	1.3
INVOLUCRE LENGTH (mm) LSD (P≤0.01) = 1.4						
mean	10.6 a	11.3 a	7.5 c	10.4 a	8.5 bc	8.9 b
std deviation	0.8	0.9	1.6	1.6	1.0	1.1
INVOLUCRE						
shape	funnel	funnel	funnel	campanulate	campanulate	funnel
number of bracts	many	many	many	many	medium	many
overlapping of bracts	weak	medium	strong	medium	weak	medium
TIME OF BEGINNING OF FLOWERING	late	medium-late	medium	medium-late	medium	very late

Mean values followed by the same letter are not significantly different at P≤0.01 according to an S-N-K test.

AVOCADO
Persea americana

'Llanos Hass'

Application No: 97/159 Accepted: 6 August 1997.
Applicant: **Anthony Philip Llanos and Cassandra Ann Llanos,** Hope Valley, WA.

Characteristics (Table 5, Figure 28) Plant: habit vigorous, upright, height medium to large. Stem: anthocyanin not present in young shoots. Leaf: attitude horizontal, blade folding concave, length long, width narrow, size large (183mm x 71mm), shape lanceolate (length:width ratio 2.6), tip acute, anthocyanin present in newly emerged leaves, anise aroma not present when crushed. Inflorescence: size axis length medium, Type 'B'. Flower: habit late, pubescence on sepals medium. Mature fruit: early maturing, size small (97mm x 64mm), shape base rounded stylar region slightly depressed, length:diameter ratio medium (1.5:1), stalk cavity present, relief of surface rough. Pedicel: length medium, shape cylindrical, nailhead shape present, pedicel/peduncle combined length medium (81mm). Ripe fruit: colour of skin purple black, thickness of skin thick (1.75mm), texture of skin leathery, adherence of skin to flesh medium, main flesh colour yellow, wide green layer of flesh next to skin, fibres in flesh inconspicuous, flesh texture smooth, seed set into cavity tight. Seed: size compared to fruit large (flesh weight:seed weight ratio 3.7:1), shape in longitudinal section base flattened, apex conical.

Origin and Breeding Open pollination followed by seedling selection: an open pollinated seedling was selected at applicant's property in Hope Valley, WA, which displayed precocious and consistent fruit set that was similar to 'Hass' but consistently matured approximately 4-6 weeks earlier than 'Hass'. DNA profiling has shown that 'Hass' is likely to be one of the parents. Selection criteria: fruit quality and maturity. Propagation: by vegetative grafting onto seedling rootstocks. Breeders: Anthony and Cassandra Llanos, Hope Valley, WA, Australia.

Choice of Comparators 'Hass' was chosen as the sole comparator because it is the most similar variety of common knowledge. DNA profiling indicated that 'Llanos Hass' is genetically very similar to 'Hass'.

Comparative Trial Comparator: 'Hass'. Location: Hope Valley, WA (Zone 50) approximately 30Km south of Perth. Conditions: scion wood from the original 'Llanos Hass' seedling tree was grafted onto Guatemalan seedling rootstocks, trees were planted in 1996 at spacings of 5.0m x 2.5m to a total of 100 trees. 'Hass' trees grafted onto Guatemalan seedling rootstocks were planted randomly within the 'Llanos Hass' block in 1997 to a total of 10 trees. The plants were grown in the field, soil being deep sands; all trees were managed in the same manner with regard to irrigation and nutrition. Irrigation using mini sprinklers aimed to wet 100% of soil in the drip zone. Nutrition requirements were based on annual leaf analysis and applied by fertigation. Trial design: the trial set up was of a completely randomised design. Measurements: samples were randomly collected from trees selected at random for analysis.

Prior Applications and Sales
First Australian sale in 1998.

Description: **Alec McCarthy, Agriculture Western Australia**, Bunbury, WA.

Table 5 *Persea* varieties

	'Llanos Hass'	*'Hass'
YOUNG SHOOT: COLOUR OF LENTICELS		
	red	green
LEAF BLADE: LENGTH (mm)		
mean	183	165
std deviation	21	25
LSD/sig	9	P≤0.01
LEAF BLADE: WIDTH (mm)		
mean	71	76
std deviation	10	9
LSD/sig	4	P≤0.01
LEAF BLADE: LENGTH TO WIDTH RATIO		
mean	2.6	2.2
std deviation	0.3	0.4
LSD/sig	0.1	P≤0.01
LEAF BLADE: SHAPE		
	lanceolate	elliptical
INFLORESCENCE: LENGTH OF AXIS		
	medium	long
INFLORESCENCE: FLOWERING TYPE		
	Type B	Type A
PEDICEL: COLOUR		
	green	yellow green
PEDICEL/PEDUNLE: COMBINED LENGTH (mm)		
mean	81	123
std deviation	15	33
LSD/sig	13.8	P≤0.01
RIPE FRUIT: THICKNESS OF SKIN (mm)		
mean	1.75	1.42
std deviation	0.16	0.22
LSD/sig	0.20	P≤0.01
RIPE FRUIT: TEXTURE OF SKIN		
	leathery	corky
RIPE FRUIT: WIDTH OF COLOURED LAYER OF FLESH NEXT TO SKIN		
	wide	medium
SEED: SIZE COMPARED TO FRUIT SIZE		
	large	medium
FLESH: SEED TO WEIGHT RATIO		
mean	3.7	4.8
std deviation	0.6	1.0
LSD/sig	0.5	P≤0.01
SEED: SHAPE IN LONGITUDINAL SECTION		
	base flattened, apex conical	ovate
TIME OF FRUIT MATURITY FOR HARVESTING:		
	early	late

BOX HONEYSUCKLE
Lonicera nitida

'Paradise Royal Flush'
Application No: 98/219 Accepted: 30 Oct 1998.
Applicant: **R. J. Cherry,** Kulnura, NSW.

Characteristics (Table 6, Figure 18) Plant: vigorous, dense, upright, branching, evergreen shrub. Stem: round in cross section, new stem growth purple (ca. RHS 187A) fading with age. Leaf: opposite, length 17mm (average), width 11mm (average), shape ovate-cordate, deeply concave in cross section, margin entire with medium undulation, apex blunt acuminate, base slightly cordate-truncate, colour of upper surface dark green (RHS 147A), lower surface dull green (RHS 146B), new growth purple (RHS 187A). Flower: trumpet shaped, borne in pairs in the leaf axils of new season's growth, size small (average diameter 10mm) with five fused petals, five free anthers becoming fused half way down the corolla tube, colour creamy-lime (RHS 154D). (Note: all RHS colour chart number refers to 1995 edition)

Origin and Breeding Controlled Pollination: *Lonicera nitida* 'Aurea' (seed parent) x *Lonicera nitida* Common form (pollen parent) in a planned breeding program in 1993. Several seeds were developed as a result of this cross. Seedlings were produced and raised to maturity in 1994. Selection criteria: from the batch of these seedlings, 'Paradise Royal Flush' was selected for its vigour, dense growth habit and deeply coloured new growth. Propagation: asexually by cuttings through three generations to ensure uniformity and stability. Breeder: R. J. Cherry, Paradise Plants, Kulnura, NSW, Australia.

Choice of Comparator The comparator used in this trial is the Common form of *Lonicera nitida*. This variety has been chosen as it is the most similar variety of common knowledge and is also the pollen parent. The seed parent *Lonicera nitida* 'Aurea' was not used as it is clearly different from the candidate variety in leaf colour (yellow-green ca. RHS 144C) which is the primary distinguishing characteristic.

Comparative Trial Comparator: Common form of *Lonicera nitida*. Location: trial conducted at Paradise Plants, Kulnura, between 1997-1999. Conditions: plants raised on their own roots from cuttings. Grown in 200mm pots in commercial potting mix and potted up into 250mm pots after 1 year, grown under full sun with overhead watering. All plants were subjected to the same chemical treatments for crop protection and nutrition as required. Trial design: 12 plants of each variety arranged in a complete block design. Measurements: taken from 10 plants of each variety. All leaf measurements are taken from mature leaves.

Prior Applications and Sales
No prior application. First sold in Australia in Oct 1997.

Description : **John Robb, Paradise Plants,** Kulnura, NSW.

Table 6 *Lonicera* varieties

	'Paradise Royal Flush'	***Lonicera nitida* Common Form**
PLANT CHARACTERISTICS		
growth habit	erect	semi prostrate
stem: colour (new growth)		
	ca. 187A	187A
LEAF CHARACTERISTICS		
leaf shape	ovate-cordate	ovate-cordate
leaf apex	blunt acuminate	blunt acuminate
leaf base	slightly cordate to truncate	slightly cordate to truncate
leaf margin	entire	entire
leaf undulation	medium	weak
leaf arrangement	opposite	opposite
leaf cross section	deeply concave	deeply concave
LEAF COLOUR (RHS, 1995)		
upper surface	147A	137A
lower surface	146B	147C
new growth	187A	145A
LEAF LENGTH (mm)		
mean	16.94	11.09
std deviation	0.96	1.11
LSD/sig	1.34	P≤0.01
LEAF WIDTH (mm)		
mean	10.53	8.09
std deviation	0.6	1.04
LSD/sig	1.09	P≤0.01
LENGTH OF 3rd INTERNODE FROM GROWING POINT (mm)		
mean	15.44	10.90
std deviation	2.16	1.26
LSD/sig	2.28	P≤0.01
LENGTH OF 4th INTERNODE FROM GROWING POINT (mm)		
mean	18.91	14.38
std deviation	2.54	2.35
LSD/sig	3.15	P≤0.01
LENGTH OF 5th INTERNODE FROM GROWING POINT (mm)		
mean	21.23	15.32
std deviation	2.95	2.67
LSD/sig	3.62	P≤0.01

BRUNFELSIA
Brunfelsia latifolia

'Sweet & Petite'
Application No: 98/176 Accepted: 19 Oct 1998.
Applicant: **Andrew Watkinson,** Palmwoods, QLD.
Agent: **Florabundance,** Verrierdale, QLD.

Characteristics (Table 7, Figure 19) Plant: erect, compact, dense, multi branching, shrub to 1m in height, width medium. Stem: internode short. Leaf: length medium (average 58.28mm), width medium (average 26.66mm),

shape elliptical. Mature leaf colour 144C (RHS, 1986). Superior cold hardiness observed, with minimal leaf discolouration and leaf drop.

Origin and Breeding Spontaneous mutation: from Common form of *Brunfelsia latifolia* at applicant's property at Palmwoods, QLD. A mutated compact lateral side shoot was removed from the mother plant and vegetatively reproduced through over 8 generations to establish uniformity and stability of the selection. The new variety is characterised by very compact growth habit, which is different from the normal form of the species. Selection criteria: compact, dense branching habit. Propagation: vegetatively through cuttings. Breeder Andrew Watkinson, Palmwoods, QLD.

Choice of Comparators 'Warwick' was included, as it is the most similar variety of common knowledge in commercial production. 'Compacta' was included, as it is a widely known smaller growing cultivar of *B. latifolia*. The Common form of *B. latifolia* was included, as it is the parental species.

Comparative Trial Comparator: 'Warwick' 'Compacta' and Common form of *B. latifolia*. Location: Florabundance Wholesale Nursery, Verrierdale, QLD. Oct 1998-Nov 1999. Conditions: plants from cuttings were grown in 200mm pots in full sun conditions in composted pinebark and sand media, with Osmocote® as the primary fertiliser. Standard pest and disease management applied as required. Trial design: 30 plants of each variety arranged in randomised rows. Measurements: taken from all trial plants.

Prior Applications and Sales
No prior applications. First sold in Australia 24th Sep 1997.

Description: **Tony Kebblewhite,** Verrierdale, QLD.

Table 7 *Brunfelsia* varieties

	'Sweet & Petite'	*'Warwick'	*'Compacta'	*B. latifolia Common Form
PLANT HABIT				
	upright broad spreading	upright narrow spreading	semi upright spreading	semi upright spreading
LEAF MARGIN UNDULATION				
	weak	weak	strong	weak
LEAF COLOUR (RHS)				
	yellow green 144C	green 146A	green 144C	yellow green 146A
LEAF LENGTH (mm) – 6th leaf from tip				
mean	58.26	61.54	61.40	57.42
std deviation	4.47	4.70	10.18	7.32
LSD/sig	4.77	ns	ns	ns
LEAF WIDTH (mm) – 6th leaf from tip				
mean	26.66	28.96	22.36	26.02
std deviation	2.16	2.48	3.80	2.81
LSD/sig	1.94	P≤0.01	P≤0.01	ns
PETIOLE LENGTH (mm) – 6th leaf from tip				
mean	3.66	4.10	4.78	4.49
std deviation	0.59	0.60	0.94	0.83
LSD/sig	0.51	ns	P≤0.01	P≤0.01
PETIOLE THICKNESS (mm) – 6th leaf from tip				
mean	0.69	0.73	0.67	0.88
std deviation	0.006	0.005	0.018	0.012
LSD/sig	0.07	ns	ns	P≤0.01
INTERNODE LENGTH (mm) – between 3rd and 4th internode				
mean	5.30	7.19	13.81	12.96
std deviation	0.97	1.27	3.50	3.14
LSD/sig	1.68	P≤0.01	P≤0.01	P≤0.01
NUMBER OF BASAL SHOOTS				
mean	6.96	4.90	5.33	6.20
std deviation	1.42	1.18	1.53	2.61
LSD/sig	1.20	P≤0.01	P≤0.01	ns

CANOLA
Brassica napus var *oleifera*

'Charlton'

Application No: 98/196 Accepted: 14 Oct 1998.
Applicant: **Agriculture Victoria Services Pty Ltd,** Attwood, VIC and **Grains Research and Development Corporation,** Barton, ACT.

Characteristics (Table 8, Figure 36) Plant: habit erect, height medium (90.5cm), medium maturing. Seedling: cotyledons relatively narrow (width/length ratio 1.63), first true leaf few or no hairs, 5th leaf mostly lobed, colour green (RHS 137C/D, 1986). Flower: wide petals (length/width ratio 2.2), anther dotting variable. Pods: long (58.2mm), long beak (9.7mm), long pedicel (22.2mm). Seed: canola quality, high oil content. Disease resistance: resistant to blackleg disease. Maturity: medium.

Origin and Breeding Single plant selection: 'Charlton' was developed as a single plant selection in 1992 from a breeding line, RF3 (this line was later released as 'Dunkeld'Φ in 1994). The selection work was carried out in a blackleg nursery at Lake Bolac, VIC. Between 1993 and 1994, the line was evaluated for oil and protein content, canola quality, yield potential, and disease resistance. In 1994, the line was identified as a promising advanced line and was entered into the Interstate Stage 2 Canola Trials as RI25. It was trialed in a number of locations covering all canola-growing regions of Australia for three years, prior to commercialisation and seed increase in 1997. 'Charlton' is distinguishable from 'Dunkeld' by its cotyledon width/length ratio, longer pods, longer beak and significantly higher oil content in the seed. Selection criteria: oil content, yield, Blackleg resistance, maturity. Propagation: open pollinated seed. Breeder: Dr. P. A. Salisbury, Victorian Institute for Dryland Agriculture, Horsham, VIC.

Choice of Comparators 'Dunkeld'Φ and 'Grouse'Φ were used as comparators. 'Dunkeld'Φ is the most similar variety of common knowledge because 'Charlton' originated as a selection from this variety. 'Grouse'Φ was included because it is a prominent medium maturity variety of common knowledge similar to the candidate.

Comparative Trial Comparators: 'Dunkeld'(Φ) and 'Grouse'(Φ). Location: trials conducted at Ag-Seed Research trial site in Horsham, VIC. Field trials were conducted during 1997 and 1998 seasons. Glasshouse trials were carried out in 1999. Conditions: drought conditions were experienced in both 1997 and 1998 seasons in western Victoria. Trial design: data on mature plant characteristics were collected in replicated field trials consisting six row 10m plots laid out as randomised blocks. Seedling data were collected in glasshouse trials designed as completely randomised trials. Measurements: data were recorded on 20 random plants from each of the three replicates giving a total of 60 observations per variety.

Prior Applications and Sales
First sold in Australia in 1998.

Description: **Dr. Gururaj Kadkol, Ag-Seed Research Pty Ltd,** Horsham, VIC.

Table 8 *Brassica* varieties

	'Charlton'	*'Dunkeld'Φ	*'Grouse'Φ
COTYLEDON WIDTH/LENGTH			
mean	1.63	1.74	1.73
std deviation	0.13	0.17	0.09
LSD/sig	0.06	P≤0.01	P≤0.01
EXTENT OF HAIRS ON FIRST TRUE LEAF (COUNTS FROM 60 LEAVES)			
absent	24	42	47
few	36	18	8
numerous	0	0	5
PERCENTAGE OF LEAF LOBING			
present	73	83	28.3
NUMBER OF LEAF LOBES			
	2.2	2.5	0.8
DAYS TO 50% FLOWERING			
	117	117	113
PETAL LENGTH/WIDTH			
mean	2.20	2.13	2.11
std deviation	0.18	0.26	0.35
LSD/sig	0.09	ns	P≤0.01
PERCENTAGE OF ANTHER DOTTING			
present	46.7	41.7	38.3
PLANT HEIGHT (cm)			
mean	90.5	84.2	81.5
std deviation	8.87	8.53	9.29
LSD/sig	3.9	P≤0.01	P≤0.01
SILIQUA LENGTH (mm)			
mean	58.2	53.2	51.6
std deviation	6.34	10.11	5.49
LSD/sig	3.8	P≤0.01	P≤0.01
BEAK LENGTH (mm)			
mean	9.65	11.3	8.1
std deviation	3.40	3.06	1.92
LSD/sig	1.2	P≤0.01	P≤0.01

'Hylite 200 TT'

Application No: 98/240 Accepted: 1 Dec 1998.
Applicant: **Pacific Seeds Pty Ltd,** Toowoomba, QLD.

Characteristics (Table 9, Figure 37) Plant: height short (average 104cm); flowering and maturity very early. Leaves: short and narrow, strongly lobed, strongly dentate, medium green. Inflorescence: petals yellow, apetalous; petals missing on 90% of flowers. Siliqua: peduncles short, pods 54mm long and beaks short. Seed: free of erucic acid. Plants tolerate triazine herbicides.

Origin and Breeding Controlled pollination: seed parent 'Siren' x pollen parent breeding line PAC N 145. The female parent is triazine tolerant and the early flowering pollen parent was backcrossed three times onto the female. 'Hylite 200 TT' is much earlier flowering and has shorter and narrower leaves than the female parent 'Siren'. It has triazine tolerance when the male parent is non-triazine tolerant. The female parent contributes to reduced vigour in 'Hylite 200 TT' compared with its recurrent male parent. After hybridisation and three backcrosses, three generations of self pollination stabilised the expression of a distinctive apetalous character. Selection criteria: triazine tolerance, very early maturity, apetalous trait and oil content. Propagation: by seed. Breeder: Andrew Easton, Pacific Seeds Pty Ltd, Toowoomba, QLD.

Choice of Comparators Varieties not tolerant to triazine herbicides can be readily distinguished. Other triazine resistant varieties are much later flowering. Comparators included the female parent 'Siren' and two early flowering varieties, 'Mystic'(Φ) and 'Karoo'(Φ).

Comparative Trial Comparators: 'Siren', and 'Mystic'(Φ) and 'Karoo'(Φ). Location: trial conducted at Cowra, NSW (sown 19 May 1999). Conditions: sown by seed and normal agronomic practices were employed. Trial design: randomised complete blocks with two replicates. Measurements: 30 random samples per replication.

Prior Applications and Sales Nil.

Description: **Dr Ross Downes,** Innovative Plant Breeders, Canberra.

Table 9 *Brassica* varieties

	'Hylite 200 TT'	*'Mystic'Φ	*'Siren'	*'Karoo'Φ
LEAF LENGTH (cm)				
mean	16.6	27.3	24.3	27.6
std deviation	2.29	3.56	2.38	4.30
LSD/sig	1.39	P≤0.01	P≤0.01	P≤0.01
LEAF WIDTH (cm)				
mean	7.8	12.0	10.4	10.0
std deviation	0.87	1.47	1.34	1.47
LSD/sig	0.56	P≤0.01	P≤0.01	P≤0.01
LEAF COLOUR				
	mid green	mid green	mid green	mid green

PLANTS WITH LEAF LOBES (PER CENT)				
	93.3	70.0	85.0	95.0
LOBE NUMBER PER PLANT WITH LOBED LEAVES				
	4.4	4.1	5.3	3.4
PETIOLE LENGTH ON PLANTS WITH LOBED LEAVES (cm)				
	6.9	13.6	10.7	15.4
LEAF DENTATION (rating 3=slight, 7=strong)				
	6.5	5.6	5.1	5.8
TIME OF FLOWERING (days after sowing at Cowra)				
	94	100	112	102
PETAL COLOUR				
	yellow	yellow	yellow	yellow
PETALS PRESENT				
	rarely	yes	yes	yes
PLANT HEIGHT (cm)				
mean	104	n/a	155	n/a
std deviation	6.2	n/a	10.1	n/a
LSD/sig	3.6	n/a	P≤0.01	n/a
SILIQUA LENGTH(mm)				
mean	54.3	54.7	50.6	49.2
std deviation	5.8	5.8	7.6	5.9
LSD/sig	2.7	ns	P≤0.01	P≤0.01
SILIQUA: LENGTH OF BEAK (mm)				
mean	8.9	12.3	11.5	10.9
std deviation	1.4	2.6	1.8	2.1
LSD/sig	0.9	P≤0.01	P≤0.01	P≤0.01
SILIQUA: LENGTH OF PEDUNCLE (mm)				
mean	17.8	20.7	22.7	18.8
std deviation	2.1	3.0	3.8	3.6
LSD/sig	1.4	P≤0.01	P≤0.01	ns

'Purler'

Application No: 99//160 Accepted: 12 Jul 1999.
Applicant: **Department of Agriculture for and on behalf of the State of New South Wales,** Orange, NSW and **Grains Research and Development Corporation,** Barton, ACT.
Agent: **Wesfarmers Dalgety SeedTech,** Bassendean, WA.

Characteristics (Table 10, Figure 38) Plant: height medium (average 133cm), flowering and maturity medium late. Leaves: strongly lobed, strongly dentate, moderately long and broad, medium green. Inflorescence: petals yellow, long and moderately broad. Siliqua: peduncles medium length, pods medium length and beaks medium length. Seed: free of erucic acid.

Origin and Breeding Recurrent Phenotypic Selection: in the first cycle of selection, seed from 18 single plant selections (from breeder lines) with high oil and protein content was bulked, sown in plots in a blackleg disease nursery, allowed to open pollinate and then harvested as a bulk in 1993. In 1994, the bulk seed was sown in plots again in the blackleg nursery. At maturity, single plant selections were taken and analysed for oil and protein. Selections with elevated levels of oil and protein were sown in preliminary yield trials in 1995 re-selected. Selection criteria: high oil and protein content in seed, tolerance to blackleg disease, medium maturity and high yield. Propagation: by seed. Breeder: Dr. Neil Wratten, Agricultural Research Institute, NSW Agriculture, Wagga Wagga, NSW.

Choice of Comparators 'Purler was compared with 'Ripper', '47C02', '46C01', 'Surpass 600', 'Charlton', 'Mystic'(Þ), 'Rainbow'(Þ) and 'Dunkeld'(Þ) on the basis of following characteristics: leaf length and width, leaf colour, presence and number of lobes, leaf dentation, time of flowering, petal colour, length and width, plant height and pod characters. These are the most similar varieties of common knowledge.

Comparative Trial Comparators: 'Ripper', '47C02', '46C01', 'Surpass 600', 'Charlton', 'Mystic'(Þ), 'Rainbow'(Þ) and 'Dunkeld'(Þ). Location: trials were conducted at Wagga Wagga, NSW (sown 10 May 1999) Conditions: sown by seed and normal agronomic practices were employed. Trial design: randomised complete blocks with three replicates. Measurements: two replications were sampled to provide 30 random samples per replication.

Prior Applications and Sales Nil.

Description: **Dr Ross Downes, Innovative Plant Breeders**, Canberra, ACT.

'Ripper'

Application No: 99/161 Accepted: 12 Jul 1999.
Applicant: **Department of Agriculture for and on behalf of the State of New South Wales,** Orange, NSW and **Grains Research and Development Corporation,** Barton, ACT.
Agent: **SGB Australia,** Collins Street West, VIC.

Characteristics (Table 10, Figure 38) Plant: height medium (average 132cm); flowering and maturity medium late. Leaves: strongly lobed, strongly dentate, moderately long and broad, light green. Inflorescence: petals yellow, long and moderately broad. Siliqua: peduncles moderate length, pods medium length and beaks long. Seed: free of erucic acid.

Origin and Breeding Recurrent Phenotypic Selection: in the first cycle of selection, seed from 18 single plant selections (from breeder lines) with high oil and protein content was bulked, sown in plots in a blackleg disease nursery, allowed to open pollinate and then harvested as a bulk in 1993. In 1994, the bulk seed was sown in plots again in the blackleg nursery. At maturity, single plant selections were taken and analysed for oil and protein. Selections with elevated levels of oil and protein were sown in preliminary yield trials in 1995 and re-selected. Selection criteria: high oil and protein content in seed, tolerance to blackleg disease, medium maturity and high yield. Propagation: by seed. Breeder: Dr. Neil Wratten, Agricultural Research Institute, NSW Agriculture, Wagga Wagga, NSW.

Choice of Comparators 'Ripper' was compared with 'Purler', '47C02', '46C01', 'Surpass 600', 'Charlton', 'Mystic'(Þ), 'Rainbow'(Þ) and 'Dunkeld'(Þ) on the basis of

following characteristics: leaf length and width, leaf colour, presence and number of lobes, leaf dentation, time of flowering, petal colour, length and width, plant height and pod characters. These are the most similar varieties of common knowledge.

Comparative Trial Comparators: 'Purler', '47C02', '46C01', 'Surpass 600', 'Charlton', 'Mystic'(ϕ), 'Rainbow'(ϕ) and 'Dunkeld'(ϕ). Location: trials were conducted at Wagga Wagga, NSW (sown 10 May 1999) Conditions: sown by seed and normal agronomic practices were employed. Trial design: randomised complete blocks with three replicates. Measurements: two replications were sampled to provide 30 random samples per replication.

Prior Applications and Sales Nil.

Description: **Dr Ross Downes, Innovative Plant Breeders**, Canberra, ACT.

Table 10 *Brassica* varieties

	'Ripper'	'Purler'	*'47C02'	*'46C01'	*'Surpass 600'	*'Charlton'	*'Mystic'ϕ	'Rainbow'ϕ	'Dunkeld'ϕ
LEAF LENGTH (cm) LSD (P≤0.01) = 1.29									
mean	21.4 bc	21.2 bc	20.2 c	20.1 c	21.4 bc	24.0 a	24.0 a	22.1 b	22.4 b
std deviation	2.91	2.86	3.21	3.28	2.49	3.55	3.03	3.69	3.02
LEAF WIDTH (cm) LSD (P≤0.01) = 0.58									
mean	10.1 ab	9.9 ab	9.1 cd	9.0 cd	9.9 b	9.9 ab	10.5 a	9.7 bc	9.9 ab
std deviation	1.27	1.31	1.22	1.53	1.38	1.29	1.36	1.51	1.32
LEAF COLOUR									
	light green	mid green	dark green	mid green	mid green	light green	mid green	mid green	light green
PLANTS WITH LEAF LOBES (PER CENT)									
	98	100	93	53	100	97	53	93	98
LOBE NUMBER PER PLANT WITH LOBED LEAVES									
	4.1	4.8	5.0	4.3	3.9	5.6	3.7	5.3	5.3
PETIOLE LENGTH ON PLANTS WITH LOBED LEAVES (cm)									
	10.9	10.2	10.5	10.3	10.7	12.1	12.0	12.8	11.1
LEAF DENTATION (rating 3=slight, 7=strong)									
	6.0	5.8	5.3	3.4	5.1	5.7	5.9	5.8	5.6
TIME OF FLOWERING (days after sowing at Wagga)									
	117	119	122	118	113	115	112	114	116
PETAL COLOUR									
	yellow	yellow	yellow	yellow	yellow	yellow	yellow	yellow	yellow
PETAL LENGTH (mm) LSD (P≤0.01) = 0.46									
mean	14.6 a	14.1 abc	14.1 abc	12.9 d	13.9 bc	13.9 bc	14.0 abc	14.3 ab	13.6 c
std deviation	1.06	1.04	1.32	1.13	0.89	0.96	1.07	0.92	0.87
PETAL WIDTH (mm) LSD (P≤0.01) = 0.40									
mean	7.4 bc	7.0 cd	7.3 bc	6.2 e	6.7 d	7.3 bc	7.6 b	8.2 a	7.1 cd
std deviation	0.82	0.99	1.17	0.98	0.73	0.85	0.76	0.88	0.82
PLANT HEIGHT (cm) LSD (P≤0.01) = 3.6									
mean	132.3 b	133.4 b	132.7 b	131.7 b	125.6 a	135.4 b	133.4 b	135.7 b	133.6 b
std deviation	6.7	8.9	10.2	10.1	8.3	7.9	8.3	8.4	9.4
SILIQUA LENGTH (mm) LSD (P≤0.01) = 3.2									
mean	59.7 cd	58.3 bc	52.8 a	52.2 a	62.5 d	62.5 d	58.8 bcd	55.1 ab	61.8 cd
std deviation	7.4	6.1	7.4	8.3	6.7	8.3	6.4	6.8	9.2
BEAK LENGTH (mm) LSD (P≤0.01) = 0.96									
mean	16.2 f	12.7 d	10.1 b	8.6 a	11.7 cd	14.8 e	12.2 cd	10.9 bc	14.1 e
std deviation	2.1	2.2	1.9	2.4	2.1	2.4	2.0	2.1	2.0
PEDUNCLE LENGTH (mm) LSD (P≤0.01) = 1.39									
mean	23.3 cd	22.9 c	19.4 ab	20.9 b	24.0 cde	25.4 e	20.1 b	18.1 a	24.5 de
std deviation	3.2	2.9	2.8	3.2	3.3	4.1	3.5	2.5	3.6

Note: Mean values followed by the same letter are not significantly different at P≤0.01 according to Duncan's Multiple Range Test.

'Surpass 600'

Application No: 98/239 Accepted: 1 Dec 1998.
Applicant: **Pacific Seeds Pty Ltd,** Toowoomba, QLD.

Characteristics (Table 11, Figure 39) Plant: bushy, height short-medium (average 125cm); flowering and maturity medium. Leaves: strongly lobed, moderately dentate, moderately short and broad, medium green. Inflorescence: petals yellow, medium petal length but petals narrow. Siliqua: peduncles long, siliqua long and beaks short. Seed: free of erucic acid.

Origin and Breeding Controlled pollination: seed parent 'Dunkeld'Φ x pollen parent breeding line 4101 in 1994. The seed parent is characterised by taller plant height than the candidate variety (133.6cm vs 125.6cm). The pollen parent is a non-commercial proprietary breeding line developed by the applicant. Selection criteria: in early generations selections were based on maturity and plant type. The F_4 generation was selected for blackleg resistance, oil content, maturity. The F_5 was screened for oil content, blackleg resistance, maturity and plant type. Fifty nine individual selections were made in the following year and these were increased for trials and seed increase. Propagation: by seed. Breeder: Andrew Easton, Pacific Seeds Pty Ltd, Toowoomba, QLD.

Choice of Comparators The seed parent 'Dunkeld'Φ was selected as a comparator as were 'Charlton', 'Mystic'Φ, and 'Rainbow'Φ which exhibit moderate to strong leaf lobe development whereas 'Oscar'Φ, 'Scoop'Φ, 'Range'Φ and 'Grouse'Φ were excluded because of their having few leaf lobes.

Comparative Trial Comparators: 'Charlton', 'Mystic'Φ, and 'Rainbow'Φ and 'Dunkeld'Φ. Locations: trials were conducted at Wagga Wagga (sown 10 May 1999) and Cowra, NSW (sown 19 May 1999). Conditions: sown by seed and normal agronomic practices were employed. Trial design: randomised complete blocks with three replicates at Wagga Wagga and two at Cowra. Measurements: Two replications were sampled to provide 30 random samples per replication at each site.

Prior Applications and Sales Nil.

Description: **Dr Ross Downes, Innovative Plant Breeders**, Canberra.

Table 11 *Brassica* varieties

	'Surpass 600'	***'Charlton'**	***'Mystic'Φ**	***'Rainbow'Φ**	***'Dunkeld'Φ**
LEAF LENGTH (cm)					
mean	21.4	24.0	24.0	22.1	22.4
std deviation	2.49	3.55	3.03	3.69	3.02
LSD/sig	1.30	P≤0.01	P≤0.01	ns	ns
LEAF WIDTH (cm)					
mean	9.9	9.9	10.5	9.7	9.9
std deviation	1.38	1.29	1.36	1.51	1.32
LSD/sig	0.59	ns	P≤0.01	ns	ns
LEAF COLOUR					
	mid green	light green	mid green	mid green	light green
PLANTS WITH LEAF LOBES (PER CENT)					
	100	97	53	93	98
LOBE NUMBER PER PLANT WITH LOBED LEAVES					
	3.9	5.6	3.7	5.3	5.3
PETIOLE LENGTH ON PLANTS WITH LOBED LEAVES (cm)					
	10.7	12.1	12.0	12.8	11.1
LEAF DENTATION (rating 3=slight, 7=strong)					
	5.1	5.7	5.9	5.8	5.6
TIME OF FLOWERING (days after sowing at Wagga)					
	113	115	112	114	116
PETAL WIDTH (mm)					
mean	6.7	7.3	7.6	8.2	7.1
std deviation	0.73	0.85	0.76	0.88	0.82
LSD/sig	0.35	P≤0.01	P≤0.01	P≤0.01	P≤0.01
PLANT HEIGHT (cm)					
mean	125.6	135.4	133.4	135.7	133.6
std deviation	8.3	7.9	8.3	8.4	9.4
LSD/sig	3.4	P≤0.01	P≤0.01	P≤0.01	P≤0.01
SILIQUA LENGTH (mm)					
mean	62.5	62.5	58.8	55.1	61.8
std deviation	6.7	8.3	6.4	6.8	9.2
LSD/sig	3.3	ns	P≤0.01	P≤0.01	ns

Table 11 *Continued*

BEAK LENGTH (mm)					
mean	11.7	14.8	12.2	10.9	14.1
std deviation	2.1	2.4	2.0	2.1	2.6
LSD/sig	1.0	P≤0.01	ns	ns	P≤0.01
PEDUNCLE LENGTH (mm)					
mean	24.0	25.4	20.1	18.1	24.5
std deviation	3.3	4.1	3.5	2.5	3.6
LSD/sig	1.5	ns	P≤0.01	P≤0.01	ns

'Surpass 600 TT'

Application No: 98/238 Accepted: 1 Dec 1998.
Applicant: **Pacific Seeds Pty Ltd,** Toowoomba, QLD.

Characteristics (Table 12, Figure 40) Plant: bushy, height medium (average 118cm); flowering and maturity medium late. Leaves: long and broad, strongly lobed, moderately dentate, light green. Inflorescence: petals yellow, long and medium width. Siliqua: peduncles long, pods long and beaks long. Seed: free of erucic acid. Plants tolerate triazine herbicides.

Origin and Breeding Controlled pollination: seed parent 'Siren' x pollen parent breeding line PAC N 142 ('Surpass 600'). The female parent is triazine tolerant and the male parent was backcrossed three times onto the female followed by three generations of selection and seed increase. 'Surpass 600 TT', like other triazine tolerant varieties has reduced vegetative growth vigour compared with its male parent and other non-triazine tolerant varieties. It has shorter and narrower leaves than 'Siren', is earlier flowering at Cowra (108 vs 112 days), and is shorter (145 vs 155cm), has a much longer siliqua (60 vs 50 mm), and has a longer beak (13.4 vs 11.5mm). Selection criteria: triazine tolerance, blackleg resistance, oil content. Propagation: by seed. Breeder: Andrew Easton, Pacific Seeds Pty Ltd, Toowoomba, QLD.

Choice of Comparators Varieties not tolerant to triazine herbicides can be readily distinguished. The comparators were triazine tolerant 'TI 1 Pinnacle'ϕ, 'Drum'ϕ, 'Clancy'ϕ and 'Karoo'ϕ. In a supplementary trial 'Surpass 600 TT' was compared with its maternal parent 'Siren'.

Comparative Trial Comparators: 'TI 1 Pinnacle'ϕ, 'Drum'ϕ, 'Clancy'ϕ and 'Karoo'ϕ. Locations: trials were conducted at Wagga Wagga (sown 10 May 1999) and Cowra, NSW (sown 19 May 1999). Conditions: sown by seed and normal agronomic practices were employed. Trial design: randomised complete blocks with three replicates at Wagga Wagga and two at Cowra. Measurements: Two replications were sampled to provide 30 random samples per replication at each site.

Prior Applications and Sales Nil.

Description: **Dr Ross Downes, Innovative Plant Breeders,** Canberra.

Table 12 ***Brassica*** **varieties**

	'Surpass 600 TT'	***'TI 1 Pinnacle'ϕ**	***'Drum'ϕ**	***'Clancy'ϕ**	***'Karoo'ϕ**
LEAF LENGTH (cm)					
mean	18.7	16.6	18.0	15.9	19.4
std deviation	2.13	2.31	2.45	2.21	2.23
LSD/sig	0.95	P≤0.01	ns	P≤0.01	ns
LEAF WIDTH (cm)					
mean	8.5	7.6	8.4	8.0	8.5
std deviation	1.05	1.11	1.06	0.88	1.07
LSD/sig	0.45	P≤0.01	ns	P≤0.01	ns
LEAF COLOUR	light green	mid green	light green	mid green	mid green
PLANTS WITH LEAF LOBES (PER CENT)	96.7	98.3	76.7	36.7	86.7
LOBE NUMBER PER PLANT WITH LOBED LEAVES	3.9	5.1	4.5	4.8	3.2
PETIOLE LENGTH ON PLANTS WITH LOBED LEAVES (cm)	9.1	8.3	7.9	6.7	10.2
LEAF DENTATION (rating 3=slight, 7=strong)	5.4	5.8	6.0	5.7	6.1
TIME OF FLOWERING (days after sowing at Wagga)	118	120	116	116	113

Table 12 *Continued*

PETAL LENGTH (mm)					
mean	14.4	13.3	13.7	14.1	13.0
std deviation	1.24	1.02	1.31	0.95	1.08
LSD/sig	0.49	P≤0.01	P≤0.01	ns	P≤0.01
PETAL WIDTH (mm)					
mean	6.6	6.2	7.1	7.3	6.6
std deviation	0.91	1.01	1.01	0.76	0.77
LSD/sig	0.39	P≤0.01	P≤0.01	P≤0.01	ns
PLANT HEIGHT (cm)					
mean	118.2	117.8	127.5	111.0	120.8
std deviation	7.9	9.5	10.4	10.3	8.4
LSD/sig	3.9	ns	P≤0.01	P≤0.01	ns
SILIQUA LENGTH (mm)					
mean	60.3	55.8	51.8	50.7	50.9
std deviation	6.8	7.3	6.3	6.7	6.2
LSD/sig	2.8	P≤0.01	P≤0.01	P≤0.01	P≤0.01
BEAK LENGTH (mm)					
mean	10.9	9.6	8.4	8.4	10.3
std deviation	1.9	1.8	1.9	1.9	2.0
LSD/sig	0.8	P≤0.01	P≤0.01	P≤0.01	ns
PEDUNCLE LENGTH (mm)					
mean	25.4	17.2	17.8	20.8	17.6
std deviation	2.9	2.7	2.6	3.9	3.2
LSD/sig	1.3	P≤0.01	P≤0.01	P≤0.01	P≤0.01

COCKSFOOT
Dactylis glomerata

'Grasslands Excel'

Application No: 98/087 Accepted: 18 Nov 1999.
Applicant: **New Zealand Pastoral Agriculture Research Institute Limited,** Hamilton, New Zealand.
Agent: **Mr. Peter Neilson, AgResearch Grasslands,** Bowna via Albury, NSW.

Characteristics (Table 13, Figure 59) Plant: intermediate to semi prostrate, densely tillered, very late maturing, moderately dark green, herbaceous perennial forage grass. Stem: thin, mean number per plant 79, mean thickness 2.9mm, culm mean length (inc. inflorescence) 1106mm. Internode mean length 337mm. Leaf: flag mean length 288mm, width 9mm, tiller mean length 145mm, width 10.5mm. Inflorescence: mean length 254mm, mean number of panicle branches 9.4. Mean heading 22 Nov (sown 27 Mar), panicle anthocyanin weak, anthers mostly dark purple. Seed: light, thousand seed weight ~ 0.3gm. Low susceptibility to leaf rusts.

Origin and Breeding Open Pollination and Recurrent Phenotypic Selection: from an accession (K2460) received from Instituto Nacional de Investigaciones Agraries (INIA), La Coruna, Spain in 1986. K2460 was highly variable and characterised by low head numbers in many plants. In 1990, K2460 was sown in seed boxes and then transplanted into the field at Palmerston North and compared with 49 other genetic lines of prostrate habit associated with 'Grasslands Wana'. In 1992, eighteen plants of K2460 were selected and inter-pollinated in isolation. In 1993, bulked seed was used establish up to 200 seedlings. In 1994, fifty-five Syn 1 plants were selected and inter-pollinated in isolation. The resultant Syn 2 seed was blended to form the basis of GK52, which was later named 'Grasslands Excel'. Selection criteria: later flowering pattern, growth habit and uniformity. Propagation: seed. Breeder: Dr W. Rumball, AgResearch Grasslands Research Centre, Palmerston North, New Zealand.

Choice of Comparators 'Grasslands Kara'Φ, 'Grasslands Wana' and 'Grasslands Tekapo' were chosen as comparators to show the relativity of the late maturity of 'Grasslands Excel' to these varieties of common knowledge. 'Grasslands Vision'Φ was included as a new candidate variety together with 'Grasslands Excel'. 'Porto' and 'Currie' are varieties of common knowledge in Australia, and 'Saborto' is eligible for seed certification in New Zealand. K2460 is no longer available for comparative purposes. However, 'Grasslands Excel' differs from that material by having a later maturity, greater uniformity, even heads numbers and improved seed production potential.

Comparative Trial Comparators: 'Grasslands Vision'Φ 'Grasslands Kara'Φ, 'Grasslands Wana', 'Grasslands Tekapo', (GK53), 'Saborto', 'Porto', 'Currie'. Location: AgResearch Grasslands Research Centre, Palmerston North, New Zealand. Conditions: seeds germinated in petri dishes on 25-27 Mar 1997 and pricked into seed trays of potting mix and placed in controlled glasshouse. Seedlings trimmed on 11 Apr 1997 and removed to open for hardening on 12 May 1997 and transplanted to open field trial on 26-27 May 97. Trial design: randomised block, 10 replicates, 10 plants per plot, 60cm between plants. Measurements/scores: on all plants.

Prior Applications and Sales

Country	Year	Status	Name Applied
New Zealand	1997	Granted	'Grasslands Excel'

No prior sales.

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

Table 13 *Dactylis* varieties

	'Grasslands Excel'	*'Grasslands Vision'ϕ	*'Grasslands Kara'ϕ	*'Grasslands Wana'	*'Grasslands Tekapo'	*'Saborto'	*'Porto'	*'Currie'
MEAN HEADING DATE (DAYS FROM 1ST FLOWERING)								
mean	52.75	27.62	29.89	30.71	21.18	33.79	28.13	16.24
std deviation	3.83	5.48	7.93	4.72	8.16	6.43	8.78	6.09
LSD/sig	2.37	P≤0.01	P≤0.01	P≤0.01	P≤0.01	P≤0.01	P≤0.01	P≤0.01
TILLER LEAF LENGTH (mm)								
mean	144.6	185.8	198.7	166.5	166.0	177.1	186.2	168.7
std deviation	30.76	40.94	41.63	34.48	35.76	38.68	34.48	27.20
LSD/sig	16.5	P≤0.01	P≤0.01	P≤0.01	P≤0.01	P≤0.01	P≤0.01	P≤0.01
TILLER LEAF WIDTH (mm)								
mean	10.52	11.53	11.37	10.51	9.69	12.45	11.43	10.96
std deviation	1.54	1.50	1.78	1.66	1.73	1.86	1.79	1.64
LSD/sig	0.79	P≤0.01	P≤0.01	ns	P≤0.01	P≤0.01	P≤0.01	ns
FLAG LEAF LENGTH (mm)								
mean	288.4	299.7	328.5	293.5	255.1	351.4	232.4	258.6
std deviation	62.73	59.32	80.03	69.43	57.14	74.10	65.73	55.93
LSD/sig	23.90	ns	P≤0.01	ns	P≤0.01	P≤0.01	P≤0.01	P≤0.01
FLAG LEAF WIDTH (mm)								
mean	9.00	11.11	11.02	10.89	8.92	13.68	12.68	10.69
std deviation	1.52	2.44	2.49	2.11	1.79	2.86	2.70	2.02
LSD/sig	0.83	P≤0.01	P≤0.01	P≤0.01	ns	P≤0.01	P≤0.01	P≤0.01
CULM LENGTH (mm)								
mean	1106.4	1085.1	1060.5	1037.3	985.2	925.2	947.7	1008.1
std deviation	134.9	115.0	139.6	135.4	152.9	148.3	143.8	93.3
LSD/sig	50.4	ns	ns	P≤0.01	P≤0.01	P≤0.01	P≤0.01	P≤0.01
CULM THICKNESS (mm)								
mean	2.93	3.25	3.33	3.09	2.34	3.87	3.28	n/a
std deviation	0.63	0.65	0.68	0.53	0.47	0.75	0.59	n/a
LSD/sig	0.21	P≤0.01	P≤0.01	ns	P≤0.01	P≤0.01	P≤0.01	n/a
TOP INTERNODE LENGTH (mm)								
mean	337.4	388.7	353.7	362.2	376.1	285.2	289.2	347.2
std deviation	56.96	69.38	74.34	67.90	71.11	81.79	93.36	56.35
LSD/sig	25.7	P≤0.01	ns	ns	P≤0.01	P≤0.01	P≤0.01	ns
INFLORESCENCE LENGTH (mm)								
mean	253.7	295.4	265.1	255.7	244.9	264.9	297.0	267.9
std deviation	47.41	73.18	55.11	50.65	55.83	50.03	54.95	55.24
LSD/sig	19.90	P≤0.01	ns	ns	ns	ns	P≤0.01	ns
NUMBER OF PANICLE BRANCHES								
mean	9.35	9.76	10.85	10.91	6.63	7.57	7.74	6.49
std deviation	1.89	1.61	1.87	1.73	1.40	1.55	1.26	1.38
LSD/sig	0.58	ns	ns	P≤0.01	P≤0.01	P≤0.01	P≤0.01	P≤0.01

COMMON VETCH
Vicia sativa

'Morava'

Application No: 99/012 Accepted: 20 Jan 1999.
Applicant: **Minister for Primary Industries, Natural Resources and Regional Development,** Adelaide, SA and **Grains Research and Development Corporation,** Barton, ACT.

Characteristics (Table 14, Figure 47) Plant: common vetch suitable for hay, grain and green manuring, height tall, time of flowering mid season maturity (indeterminate), semi-erect. Foliage: at early stage both leaf and stem reddish later turns dark green colour (RHS 139A). Flower: colour red-purple (RHS 74A). Pod: shape straight, pod length 50.71mm and maximum width 7.29mm, pod colour at maturity greyed-orange (RHS 164B). Seed: shape spherical, size small, cotyledon colour yellow-orange (RHS 23D), testa colour brown (RHS 200C). Disease resistance: highly resistant to rust (*Uromyces viciae-fabae*), resistant to *Ascochyta*.

Origin and Breeding Controlled pollination: seed parent 'Blanchefleur' x pollen parent IK-5, with final cross made in 1992. The parent plants were distinguishable from 'Morava' in terms of flower and cotyledon colour, disease resistance, leaf and stem colour in early and later growth stages. A single-plant, single-row pedigree system was employed. Selection of single plants started with the F_2 generation. In the F_3 generation selection made for grain and herbage yield, disease resistance and non-shattering of pods. Replicated yield trials started in F_4. Selection criteria: increased grain and herbage yield, disease resistance, seed softness, non-shattering of pods at harvest and wide adaptation. Propagation: by seed. Breeder: Rade Matic, SARDI, Adelaide, SA.

Choice of Comparators 'Blanchefleur' was included in the comparative trial as this is the main vetch variety of common knowledge. 'Blanchefleur' is also the seed parent. The pollen parent was not considered for the trial because 'Morava' is clearly distinguishable from IK-5 in terms of growth habit (prostrate), seed coat colour and maturity (late). 'Languedoc' was not included because it is distinguishable from 'Morava' in terms of days to first flowering (90 days for 'Languedoc' vs 110 days for 'Morava').

Comparative Trial Comparator: 'Blanchefleur'. Location: Charlick Field Experimental Station, University of Adelaide, located 70km south-east of Adelaide, SA. Conditions: plants were raised in fallowed open plots. Trial design: randomised complete blocks, each plot was sown as a paired row 8m in length. The rows were 1.2 m apart. Sowing rate was 45 seeds per plot. Measurements: 10 specimens per replication selected randomly from each plot.

Prior Applications and Sales
No prior applications. First sold in Australia in Apr 1999 under the name 'Morava'.

Description: **R. Matic, SARDI,** A division of the Department of Primary Industries and Resources South Australia, Adelaide, SA.

Table 14 *Vicia* varieties

	'Morava'	*'Blanchefleur'
PLANT: HEIGHT		
	tall	medium
LEAF: COLOUR		
	green (RHS 139A)	yellow-green (RHS 147A)
FLOWER: COLOUR OF STANDARD		
	red-purple (RHS 74A)	white (RHS 155A)
POD: LENGTH (mm)		
mean	50.71	39.29
std deviation	0.95	1.50
LSD/sig	1.50	P≤0.01
POD: TYPE OF CURVATURE		
	medium	weak
POD: COLOUR AT MATURITY		
	greyed-orange (RHS 164B)	greyed-orange (RHS 165B)
SEED: COLOUR OF COTYLEDON		
	yellow-orange (RHS 23D)	orange (RHS 25C)
SEED WEIGHT (100 HARVESTED DRY SEEDS) (g)		
mean	8.31	6.59
std deviation	0.12	0.21
LSD/sig	0.21	P≤0.01
DISEASE RESISTANCE		
leaf/stem rust (*Uromyces viciae-fabae*)		
	highly resistant	susceptible
Ascochyta	resistant	susceptible
Chocolate spot (*Botrytis*)		
	tolerant	susceptible

CRIMSON CLOVER
Trifolium incarnatum

'Blaza'

Application No: 99/146 Accepted: 9 Jun 1999.
Applicant: **SEEDCO,** Hilton, SA.

Characteristics (Table 15, Figure 61) Plant: annual, upright, moderately tall, mid to late season maturity. Stem: medium thickness, round cross section, branched in some plants, green or with some anthocyanin pigmentation, pithy core tending to slight hollow centre, moderately pubescent. Petiole: green or with some anthocyanin pigmentation in some plants, slightly pubescent. Leaf: large trifoliate, leaflets generally heart shaped with a slight indentation at the distal end of the midrib, green with variable anthocyanin pigmentation centred about the midrib, no other pigmentation, sparsely to moderately pubescent on both surfaces. Stipules: large, fleshy green upper lobe, pale green lower with prominent darker green veining. Inflorescence: large terminal spike, to ~ 6cm in length, cylindrical or cigar shaped, with up to 100 florets per spike, spike upright

during flowering but drooping to horizontal after all florets are wilted, floret opening progressing from the proximal to the distal end of the spike over about two weeks. Floret: small to medium. Calyx: green, occasional crimson veining on the tube, villous, with 5 long pointed lobes that extend after pollination to give a stellate appearance to each floret at maturity. Corolla: small, pea type, distinct bright crimson when open. Seed: medium, one per floret, amber to yellow.

Origin and Breeding Open Pollination and Recurrent Phenotypic Selection: derived from 3 cycles of phenotypic recurrent selection with open pollination between selections at each cycle. Original selections were predominantly from the cultivars 'Tibbee', 'Autuga' and 'Frontier', but also include outcrosses with about 30 other lines selected on the basis of plant habit, vigour and flowering time. 'Tibbee', 'Autuga' and 'Frontier' are characterised by medium plant height and medium flowering. Selections were progeny tested for these characteristics, and nine progenies of 26 original plants allowed to inter-pollinate. Progeny were then re-selected over two generations for trueness to the desired growth habit, vigour and flowering time. Selections of the second cycle were inter-pollinated to produce AZ 3280, which was observed to have superior growth characteristics to the parental lines. Seed of this line subsequently became breeder's seed for 'Blaza'. Selection criteria: taller plant height and later flowering. Propagation: by seed. Breeder: New Zealand Pastoral Agriculture Research Institute, (AgReasearch), Palmerston North, New Zealand.

Choice of Comparators Currently there are only two crimson clover varieties of common knowledge available in Australia; 'Caprera' and 'Contea'. Both were chosen as comparators. The predominant parental varieties, 'Tibbee', 'Autuga' and 'Frontier' were not included because they are clearly distinct from 'Blaza' in plant height and flowering time as stated above.

Comparative Trial Comparators: 'Contea', 'Caprera'. Location: Currency Creek, or about 75km SSE of Adelaide, SA, between Jun and Nov 1999. Conditions: trial conducted in the field. The soil was a moderately fertile, free draining sandy loam of approximately pH 6. A single spring irrigation of approximately 40mm rainfall equivalent was applied in mid Oct to allow plots to mature with minimum water stress. No chemical or fertiliser treatments were used and plots were hand weeded as required. Trial design: a randomised complete block with 4 replicates, each of 25 plants. Plants were seeded and raised in Jiffy 7 pellets in a shadehouse, and then transplanted into the field at approximately 4 weeks of age in late Jun 1999. Each replicate was comprised of 25 plants in 4 rows, with 20cm between plants and 50cm between rows. Measurements: from all plants, or from whole rows as indicated.

Prior Applications and Sales Nil

Description: **Andrew W.H. Lake, Pristine Forage Technologies**, Daw Park, SA.

Table 15 *Trifolium* varieties

	'Blaza'	*'Caprera'	*'Contea'
DAYS TO 1st FLOWER – First open flower in row of 25 plants			
mean	122.75	127.50	128.00
std deviation	1.71	1.29	2.71
LSD/sig	3.57	P≤0.01	P≤0.01
DAYS TO 20% HEAD EMERGENCE – 20% of plants with at least one head emergent from bracts			
mean	125.25	127.75	129.25
std deviation	1.71	0.96	0.96
LSD/sig	2.34	P≤0.01	P≤0.01
DAYS TO 80% COMPLETION OF FLOWERING – 80% of flower heads with all petals wilted			
mean	152.50	157.50	159.25
std deviation	1.92	2.08	1.50
LSD/sig	3.35	P≤0.01	P≤0.01

DWARF CHILLI
Capsicum annuum var. *fasciculatum*

'Orange Bantam'

Application No: 98/154 Accepted: 7 Sep 1998.
Applicant: **Prof. N F Derera, AM, ASAS Pty Ltd**, Winston Hills, NSW.
Agent: **A. J. Newport and Son Pty Ltd,** Winmalee, NSW.

Characteristics (Table 16, Figure 30) Seedling: anthocyanin colouration present (faint). Plant: growth habit dwarf, height at flowering short (175mm), width medium (213mm), number of internodes between first flower and shortened internodes none, anthocyanin colouration at level of nodes medium. Leaf: length of blade medium to long (125mm), width medium to broad (38mm), length/width ratio 3.3. Flowers: borne on erect peduncles, colour white RHS 155A. Fruit: colour before maturity yellow green RHS 144A and brown RHS ca 200A, attitude erect, diameter large (24.1mm), length medium to long (40mm), length/diameter ratio 1.67, volume medium (11500mm^3), predominant shape of longitudinal section triangular, predominant shape of cross section at level of placenta round, colour at maturity orange RHS 32A, glossiness strong, stalk cavity absent, apex shape acute, predominant number of locules 2 or 3, flesh thickness thick (3.5mm), weight medium (7.4g), placenta small, stalk length medium (26.8mm), stalk thickness medium to thick. Time of beginning of flowering early to medium, time of ripening early to medium. (Note: all RHS colour chart numbers refer to 1986 edition.)

Origin and Breeding Spontaneous mutation: from 'Bantam'$^{\Phi}$. The parental variety is characterised by dark red (RHS 45A) mature fruit colour. An orange colour mutant (RHS 32A) was selected from 'Bantam'$^{\Phi}$ at University of Sydney, Plant Breeding Institute, Cobbitty. Selection criteria: mature fruit colour, fruit number, dwarf plant habit, continuous flowering, spicy hot taste and attractive appearance. Propagation: by seed over 5 generations. Breeder: Prof. N F Derera, AM, ASAS Pty Ltd, Winston Hills, NSW.

Choice of Comparators 'Bantam'(ф) and 'Thimble'(ф) were initially considered for the comparative trial as these are similar varieties of common knowledge. 'Thimble'(ф) was later excluded from the trial because of differing fruit colours (RHS 79B and 6 C-D before maturity and RHS 44A and RHS 45 at maturity) and shorter leaf lengths. 'Bantam'(ф) was used as a comparator because it is the maternal variety from which the candidate 'Orange Bantam' was derived.

Comparative Trial Comparator 'Bantam'(ф). Location: A.J.Newport and Son Pty Ltd, Winmalee, Jul Nov 1999. Conditions: trials conducted in a greenhouse, plants propagated from seed at 23ºC in a commercial mix, seedlings planted out in 150mm pots containing commercial media, dripper irrigated, spacing at 20cm, nutrition, pest and disease treatment as required. Trial design: 30 plants of each variety arranged in a completely random design. Measurements: from all trial plants, one sample per plant.

Prior Applications and Sales
No prior applications. First Australian sale in 1998.

Description: **Melissa Hunt, A.J.Newport and Son Pty Ltd**, Winmalee, NSW.

Table 16 *Capsicum* varieties

	'Orange Bantam'	*'Bantam'(ф)
PLANT: WIDTH AT FLOWERING (mm)		
mean	213	184
std deviation	29	36
LSD/sig	22	P≤0.01
LEAF: LENGTH OF BLADE (mm)		
mean	125	112
std deviation	10	16
LSD/sig	9	P≤0.01
FRUIT: VOLUME (mm^3)		
mean	11500	13967
std deviation	2898	3819
LSD/sig	2382	P≤0.01
FRUIT: COLOUR AT MATURITY (RHS, 1986)		
	32A	45A-46A
FRUIT: PREDOMINANT NUMBER OF LOCULES		
	2 or 3	3
FRUIT: WEIGHT(g)		
mean	7.4	9.0
std deviation	1.7	2.4
LSD/sig	1.4	P≤0.01
FRUIT: STALK LENGTH (mm)		
mean	26.8	24.6
std deviation	3.2	2.1
LSD/sig	1.8	P≤0.01

ERIOSTEMON
Philotheca myoporoides

'Lime Delight'

Application No: 99/237 Accepted: 23 Sep 1999.
Applicant: **R. J. Cherry,** Kulnura, NSW.

Characteristics (Table 17, Figure 17) Plant: vigorous, upright, branching, evergreen shrub. Stem: terete in cross section, verrucose, new stem growth lime-green (144B/151B) aging to deeper green (146B). Leaf: coriaceous, alternate, length 63mm (average), width 8mm (average), shape oblong to broadly obovate, concave in cross section, margin entire with weak undulation, apex mucronate, base cuneate, colour of mature leaves mid green (137A), new growth lighter (151A). Inflorescence: cyme. Flower: axillary, white (petal RHS 155D) with a very slight purple tinge to the back of the petal, size medium (average diameter 18.9mm). (Note: all RHS colour chart number refers to 1995 edition).

Origin and Breeding Spontaneous mutation: in 1995, several thousand rooted cuttings were produced from *Philotheca myoporoides* (common form) at applicant's nursery at Kulnura, NSW. One of these cuttings gave rise to a plant, which exhibited lighter coloured leaf and stem characteristics than the parent plant. Cuttings were taken from this sport and all resultant plants exhibited the same lighter colouration. Selection criteria: lighter leaf and stem colour. Propagation: asexually by cuttings through three generations to ensure uniformity and stability. Breeder: R. J. Cherry, Paradise Plants, Kulnura, NSW, Australia.

Choice of Comparator The comparator used in this trial is *Philotheca myoporoides* (common form). This variety has been chosen as it is the most similar variety of common knowledge and is also the parent.

Comparative Trial Comparator: *Philotheca myoporoides* (common form). Location: trial conducted at Paradise Plants, Kulnura, between 1997-1999. Conditions: plants raised on their own roots from cuttings. Grown in 200mm pots in commercial potting mix and potted up into 250mm pots after 1 year, grown under full sun with overhead watering. All plants were subjected to the same chemical treatments for crop protection and nutrition as required. Trial design: 12 plants of each variety arranged in a complete block. Measurements: taken from 10 plants of each variety.

Prior Applications and Sales
No prior application. First sold in Australia in May 1997.

Description : **John Robb,** Paradise Plants, Kulnura, NSW.

Table 17 *Philotheca* varieties

	'Lime Delight'	**Philotheca myoporoides* (Common Form)
PLANT HABIT		
	upright, branching	upright, branching
STEM CHARACTERISTICS		
cross section	terete	terete
texture	verrucose	verrucose
stem: colour of new growth		
	144B/151B	144A
LEAF COLOUR (RHS, 1995)		
mature leaf colour	137A	137A
main colour of new leaves		
	151A	146B
margin colour of new leaves		
	151A	144A
FLOWER CHARACTERISTICS		
petal colour	155D	155D
purplish tinge on reverse side of the petal		
	less prominent	more prominent

Note: All RHS colour chart numbers refer to 1995 edition

FIELD PEA
Pisum sativum

'Cooke'

Application No: 99/227 Accepted: 9 Nov 1999.
Applicant: **Chief Executive Officer, Agriculture Western Australia,** Perth, WA and **Grains Research and Development Corporation,** Barton, ACT.

Characteristics (Table 18, Figure 41) Plant: a high quality milling grade, conventional leaf type field pea, height tall, time of flowering medium to late, maturity medium, anthocyanin absent. Foliage: colour green, intensity light to medium. Leaf: conventional, medium to large, dentation very weak, usually 6 leaflets (average 5.97) per leaf at 1st fertile node, parchment weak, distance from widest point to base long. Stipule: well developed, flecking present, maximum intensity medium. Flower: white, shape of base of standard arched. Pod: shape straight or weak concave curvature, usually 2 per peduncle at 2nd fertile node, 4 to 5 ovules (average 4.47) per pod, shape of distal part blunt. Seed: shape spherical, size medium (100 seed weight 15.7 g), cotyledon colour yellow, dimple absent, testa; colour cream, plain, hilum black, shape of starch grains complex.

Origin and Breeding Controlled pollination: seed parent 'Derrimut' x pollen parent WA532 (a South Australian breeding line, code SA 1331). 'Cooke' has white flowers, cream coloured testa and black hilum which is easily distinguished from the seed parent 'Derrimut' which has coloured flowers, dun coloured testa and white hilum. 'Cooke' is distinct from the pollen parent WA532, a semi leafless type while 'Cooke is a conventional leaf type. The original cross was made in Western Australia in 1988, single plants selected in F_2 and F_2 derived F_3 to F_5 lines were evaluated over the next three years. Single plants were re-selected from the promising F_2 derived F_5 lines to produce near homozygous lines. The F_5 derived F_8 lines were tested in breeders trials and then five years of performance testing in the Crop Variety Tests conducted by AGWEST in various regional locations in Western Australia. Selection criteria: increased seed quality and yield, agronomic adaptation to the agricultural regions of Western Australia. Propagation: by seed. Breeder: Dr. T Khan and Dr. R French, Agriculture Western Australia, South Perth, WA.

Choice of Comparators 'Laura' and 'Wirrega' are white flowered, conventional leaf type varieties similar to 'Cooke'. Both 'Laura' and 'Wirrega' are most similar varieties of common knowledge in southern Australia.

Comparative Trial Comparators: 'Laura' and 'Wirrega'. Location: Avon Districts Agriculture Centre, Northam WA. Sown 2/6/99. Conditions: plants were in red loam pH 5.6 in $CaCl_2$ in open plots. The plots were treated with 2.2l/ha Bladex® plus glyphosate 2 days before seeding, Hoegrass® at 1.5l/ha on 1/7/99 and Sertin® at 250 ml/ha on 19/7/99 where applied for grass control, no treatment for disease or insect control was required. Agras® No 1 at 120 kg/ha was drilled with the seed, all seed was inoculated with group E inoculum the day it was sown. Trial design: plants sown in randomised complete blocks 10m long by 1.42m (8 rows) wide by 2 replications. Measurements: taken from 10 specimens per replicate selected randomly from approximately 2000 plants.

Prior Applications and Sales Nil.

Description: **David Allen Collins,** Northam, WA .

Table 18 *Pisum* varieties

	'Cooke'	*'Laura'	*'Wirrega'
HEIGHT AT FIRST FLOWER (mm)			
mean	1196.75	891.00	1049.00
std deviation	128.76	107.14	97.86
LSD/sig	95.31	P≤0.01	P≤0.01
WIDTH OF FLOWER BASE (mm)			
mean	31.37	30.38	28.38
std deviation	1.61	1.29	1.80
LSD/sig	2.85	ns	P≤0.01
HEIGHT AT MATURITY (mm)			
mean	1602.00	1396.85	1301.00
std deviation	227.37	314.64	190.96
LSD/sig	209.41	ns	P≤0.01
100 SEED WEIGHT (g) (from harvest sample)			
mean	15.72	13.19	14.28
std deviation	1.15	0.6	0.64
LSD/sig	2.5	P≤0.01	ns
HILUM: COLOUR			
	black	white	white
TESTA: COLOUR			
	cream	white	white

STIPULE: LENGTH (mm) (at 2nd fertile node)			
mean	75.49	67.87	69.97
std deviation	8.86	5.71	5.39
LSD/sig	6.81	P≤0.01	ns
PEDUNCLE: LENGTH (mm) (at 1st fertile node)			
mean	106.43	83.41	77.10
std deviation	21.65	19.18	15.91
LSD/sig	16.15	P≤0.01	P≤0.01
LEAFLET: WIDEST POINT TO BASE (mm) (at 2nd fertile node)			
mean	23.68	19.73	19.83
std deviation	2.96	3.51	2.72
LSD/sig	3.67	P≤0.01	P≤0.01

'Helena'

Application No: 99/228 Accepted: 9 Nov 1999.
Applicant: **Chief Executive Officer, Agriculture Western Australia,** Perth, WA and **Grains Research and Development Corporation,** Barton, ACT.

Characteristics (Table 19, Figure 42) Plant: a milling grade, conventional leaf type field pea, height tall, time of flowering medium to late, maturity medium, anthocyanin present. Foliage: colour green, intensity medium. Leaf: conventional, medium to large, dentation very weak, usually 4 leaflets (average 4.25) per leaf at 1st fertile node, parchment weak, distance from widest point to base short. Stipule: well-developed, flecking present, maximum intensity medium. Flower: wing reddish purple, colour strong, standard intensity of colour medium, shape of base slightly arched. Pod: shape straight or weak concave curvature, usually 5 ovules (mean 4.7) per pod at 2nd fertile node, shape of distal part blunt. Seed: shape irregular, size small to medium (100 seed weight 14.1 g) cotyledon colour yellow, dimple present, testa; colour mainly green (classified dun), plain, hilum white, shape of starch grains complex.

Origin and Breeding Controlled pollination: seed parent 'Dundale' x pollen parent A130-465-3 (a South Australian breeding line). The seed parent 'Dundale' is earlier in flowering and has larger seed than 'Helena'. The pollen parent A130-465-3 is distinguished from 'Helena' by its brown seed testa colour, 'Helena' has mainly green testa colour. The original cross was made in Western Australia in 1988, single plants selected in the F_2 and F_2 derived F_3 to F_5 lines were evaluated over the next three years. Single plants were reselected from the promising F_2 derived lines to produce near homozygous lines. The F_5 derived F_6-F_8 lines were tested in breeders trials and five years of performance testing in the Crop Variety Tests conducted by AGWEST in various regional locations in Western Australia. Selection criteria: increased seed yield and seed quality, agronomic adaptation to the agricultural regions of Western Australia. Propagation: by seed. Breeder: Dr. T Khan and Dr. R French, Agriculture Western Australia, South Perth, WA.

Choice of Comparators 'Dundale' and 'Derrimut' have coloured flowers, conventional leaf type and dun seed type similar to 'Helena'. 'Dundale' is also the seed parent of 'Helena'. Both comparators are most similar varieties of common knowledge in southern Australia'.

Comparative Trial Comparators: 'Dundale' and 'Derrimut'. Location: Avon Districts Agriculture Centre, Northam WA. Sown 2/6/99. Conditions: plants were in red loam pH 5.6 in $CaCl_2$ in open plots. The plots were treated with 2.2l/ha Bladex® plus glyphosate 2 days before seeding, Hoegrass® at 1.5l/ha on 1/7/99 and Sertin® at 250 ml/ha on 19/7/99 where applied for grass control, no treatment for disease or insect control was required. Agras® No 1 at 120 kg/ha was drilled with the seed, all seed was inoculated with group E inoculum the day it was sown. Trial design: plants sown in randomised complete blocks 10m long by 1.42m (8 rows) wide by 2 replications. Measurements: taken from 10 specimens per replicate selected randomly from approximately 2000 plants.

Prior Applications and Sales Nil.

Description: **David Allen Collins,** Northam, WA.

Table 19 *Pisum* varieties

	'Helena'	*'Derrimut'	*'Dundale'
DAYS TO FIRST FLOWER			
mean	85.90	73.75	80.15
std deviation	1.82	2.09	3.29
LSD/sig	3.16	P≤0.01	P≤0.01
HEIGHT AT FIRST FLOWER (mm)			
mean	1035.51	734.50	919.50
std deviation	121.83	73.23	59.57
LSD/sig	82.52	P≤0.01	P≤0.01
WIDTH OF FLOWER BASE (mm)			
mean	32.01	27.03	33.31
std deviation	2.01	1.92	2.30
LSD/sig	3.5	P≤0.01	ns
HEIGHT AT MATURITY (mm)			
mean	1475.75	1454.75	1666.50
std deviation	183.52	232.99	195.21
LSD/sig	175.79	ns	P≤0.01
100 SEED WEIGHT (g) (from harvest sample)			
mean	14.11	12.31	17.07
std deviation	0.44	1.09	2.46
LSD/sig	2.46	ns	P≤0.01
SEED: TESTA COLOUR			
	95% green	65% green	45% green
STIPULE: LENGTH (mm) (at 2nd fertile node)			
mean	81.37	65.87	84.19
std deviation	7.59	10.24	10.82
LSD/sig	8.11	P≤0.01	ns
STIPULE: WIDTH (mm) (at 2nd fertile node)			
mean	47.58	36.30	48.59
std deviation	5.11	5.53	7.57
LSD/sig	5.62	P≤0.01	ns
PEDUNCLE: LENGTH (mm) (at 1st fertile node)			
mean	98.19	80.04	116.69
std deviation	19.24	13.41	13.43
LSD/sig	14.56	P≤0.01	P≤0.01

LEAFLET: LENGTH (mm) (at 2nd fertile node)			
mean	51.91	40.61	55.42
std deviation	4.65	5.87	6.30
LSD/sig	5.2	P≤0.01	ns
LEAFLET: WIDTH (mm) (at 2nd fertile node)			
mean	32.74	23.64	32.37
std deviation	6.63	4.69	4.44
LSD/sig	5.34	P≤0.01	ns
LEAFLET: WIDEST POINT TO BASE (mm) (at 2nd fertile node)			
mean	19.12	18.62	24.54
std deviation	2.69	3.10	3.83
LSD/sig	3.32	ns	P≤0.01

'Mukta'

Application No: 99/053 Accepted: 3 Mar 1999.
Applicant: **Minister for Primary Industries, Natural Resources and Regional Development,** Adelaide, SA and **Grains Research and Development Corporation,** Barton, ACT.

Characteristics (Table 20, Figure 43) Plant: quality white field pea, height semi-dwarf, time of flowering late, maturity medium (determinate), anthocyanin absent. Foliage: colour green (RHS 137D). Leaf: semi-leafless, stipule present, strong dentation along entire length, sparse flecking, stipule length and breadth 6.1 x 2.69cm. Flower: standard white (RHS 155D) and raised, peduncle length from stem to first flower 5.08cm. Pod: shape straight, no curvature, pod length and maximum width 6.6 x 1.02cm, pod colour at maturity greyed-orange (RHS 163B), number of ovule 6.4 (average). Seed: shape spherical, size large, shape of starch grain simple, cotyledon colour yellow-orange (RHS 22A), testa colour orange-white (RHS 159A). Disease resistance: completely resistant to powdery mildew and *septoria pisi*, moderately resistant to downy mildew and has shown less susceptibility to *Ascochyta* blight than conventional dun type pea varieties. (Note: all RHS colour chart numbers refer to 1995 edition).

Origin and Breeding Controlled pollination: seed parent breeding line M150-1x pollen parent S.A.1406, with final cross made in 1989. Breeding line M150-1 developed from complex crossing of Early Dun/SA966/SA916. The parent plants were distinguishable from 'Mukta' in terms of leaf type, anthocyanin pigmentation, flower and cotyledon colour as well as resistance to diseases. A single-plant, single-row pedigree system was employed. Selection of single plants commenced with the F_2 generation. In the F_3-F_4 generations, emphasis was toward selection among families. 'Mukta' entered into replicated yield trials as M257-2-1 in 1993. Selection criteria: increased grain yield, lodging resistance, high grain quality and resistance to diseases. Propagation: by seed. Breeder: S. M. Ali, SARDI, Adelaide, SA.

Choice of Comparators 'Glenroy' and 'Laura' were included in the comparative trial as 'Mukta' replaces them in terms of powdery mildew resistance. 'Glenroy' and 'Laura' are the most widely grown white pea variety of common knowledge. 'Mukta' is easily distinguishable from two other newly released white pea varieties in Australia, 'Santi' and 'Snowpeak', by the presence of strong dentation character of its stipule and multiple disease resistance. The parental genotypes were not considered for the trial because 'Mukta' is clearly distinguishable from these lines in characteristics stated above.

Comparative Trial Comparators: 'Glenroy' and 'Laura'. Location: Charlick Field Experimental Station, University of Adelaide, located 70km south-east of Adelaide, SA. Conditions: plants were raised in fallowed open plots. Trial design: plots arranged in randomised complete blocks, each plot was sown as a paired row 3m in length. The rows were 1m apart. Sowing rate was 40 seeds per plot. Measurements: 10 specimens per replication selected randomly from each plot.

Prior Applications and Sales
No prior applications. First sold in Australia in Apr 1998 under the name M257-2-1.

Description: **S. M. Ali,** SARDI, A division of the Department of Primary Industries and Resources South Australia, Adelaide,SA.

Table 20 *Pisum* varieties

	'Mukta'	*'Glenroy'	*'Laura'
SEED: TESTA COLOUR	orange white (RHS 159A)	greyed green (RHS 191B)	orange white (RHS 159A)
SEED WEIGHT (100 HARVESTED DRY SEEDS) (g)			
mean	20.73	19.29	16.60
std deviation	0.46	0.48	0.49
LSD/sig	0.61	P≤0.01	P≤0.01
POD: LENGTH (cm)			
mean	6.56	6.10	5.37
std deviation	0.45	0.44	0.50
LSD/sig	0.48	ns	P≤0.01
POD: NUMBER OF OVULES PER POD			
mean	6.4	5.5	6.2
std deviation	0.69	1.17	1.31
LSD/sig	1.11	ns	ns
PLANT: ANTHOCYANIN COLOURATION	absent	present	absent
PLANT: HEIGHT	medium	tall	tall
LEAF: COLOUR	green (RHS 137D)	green (RHS 137C)	green (RHS 137D)
LEAF: LEAFLETS	absent	absent	present
STIPULE: DENTATION	strong (along entire length)	weak (near base only)	medium (near base only)
STIPULE: LENGTH (cm)			
mean	6.11	7.48	5.68
std deviation	0.11	0.12	0.10
LSD/sig	0.15	P≤0.01	P≤0.01

STIPULE: BREADTH(cm)			
mean	2.69	3.78	3.40
std deviation	0.12	0.10	0.12
LSD/sig	0.15	P≤0.01	P≤0.01
FLOWER: LENGTH OF PEDUNCLE FROM STEM TO FIRST FLOWER (cm)			
mean	5.08	7.32	6.86
std deviation	0.22	0.63	0.29
LSD/sig	0.63	P≤0.01	P≤0.01
FLOWER: COLOUR OF STANDARD			
	white (RHS 155D)	violet (RHS 85A)	white (RHS 155D)
DISEASE RESISTANCE			
powdery mildew	highly resistant	highly resistant	susceptible
downy mildew	resistant	susceptible	susceptible
Septoria pisi	resistant	susceptible	susceptible
Ascochyta blight	moderately susceptible	highly susceptible	highly susceptible

'Parafield'

Application No: 99/006 Accepted: 18 Jan 1999.
Applicant: **Minister for Primary Industries, Natural Resources and Regional Development,** Adelaide, SA and **Grains Research and Development Corporation,** Barton, ACT.

Characteristics (Table 21, Figure 44) Plant: dun field pea suitable for milling or stock feed, height tall, time of flowering mid season maturity (indeterminate), anthocyanin present, strong anthocyanin ring around the base of stipule, vein of the stipule and some on the stem persists until early to mid pod formation stage. Foliage: colour green (RHS 137B). Leaf: normal type, stipule present, medium dentation of the leaflets, sparse flecking of the stipule, stipule length and breadth 5.63 x 2.68cm. Flower: standard violet (RHS 85A) and raised, peduncle length from stem to first flower 8-10cm. Pod: shape straight, no curvature, pod length and maximum width 6.8x 1.01cm, pod colour at maturity greyed-orange (RHS 163B), number of ovule 6.6 (average). Seed: shape spherical, size large, shape of starch grain simple, cotyledon colour yellow-orange RHS 22A), testa colour greyed-orange (RHS 165A). (Note: all RHS colour chart numbers refer to 1995 edition).

Origin and Breeding Controlled Pollination: seed parent S.A. 343 x pollen parent line S.A. 1405, with final cross made in 1989. The parent plants were distinguishable from 'Parafield' in terms anthocyanin pigmentation, leaf type, cotyledon colour, maturity and seed size. A single-plant, single-row pedigree system was employed. Selection of single plants commenced with the F_2 generation. In the F_3-F_4 generations, emphasis was toward selection among families. 'Parafield' entered as unreplicated primary breeding trial as a selected bulked F_5 line (P503-3-4) in 1993. It was promoted to replicated breeding trials in 1994, and into state-wide S4 trials in 1995. Selection criteria: increased grain yield, seedling vigour, mid-season maturity, non-shattering of pods at harvest and wide adaptation. Propagation: by seed. Breeder: S. M. Ali, SARDI, Adelaide, SA.

Choice of comparators 'Dundale' and 'Alma' were included in the comparative trial as these are similar varieties of common knowledge. The parental genotypes were not considered for the trial because 'Parafield' is clearly distinguishable from these lines in characteristics stated above.

Comparative Trial Comparators: 'Dundale' and 'Alma'. Location: Charlick Field Experimental Station, University of Adelaide, located 70km south-east of Adelaide, SA. Conditions: plants were raised in fallowed open plots. Trial design: plots arranged in randomised complete blocks, each plot was sown as a paired row 3m in length. The rows were 1m apart. Sowing rate was 40 seeds per plot. Measurements: 10 specimens per replication selected randomly from each plot.

Prior Applications and Sales
No prior applications. First sold in Australia in Apr 1998 under the name P503-3-4.

Description: **S. M. Ali, SARDI,** A division of the Department of Primary Industries and Resources South Australia, Adelaide , SA.

Table 21 *Pisum* varieties

	'Parafield'	***'Dundale'**	***'Alma'**
SEED: TESTA COLOUR			
	greyed yellow (RHS 162A)	greyed yellow (RHS 161A)	greyed yellow (RHS 161A)
SEED WEIGHT (100 HARVESTED DRY SEEDS) (g)			
mean	23.01	21.13	20.90
std deviation	0.34	0.31	1.44
LSD/sig	1.08	P≤0.01	P≤0.01
POD: LENGTH (cm)			
mean	6.80	5.97	5.95
std deviation	0.33	0.42	0.17
LSD/sig	0.33	P≤0.01	P≤0.01
POD: NUMBER OF OVULES PER POD			
mean	6.60	5.64	5.09
std deviation	0.52	0.50	0.94
LSD/sig	0.81	P≤0.01	P≤0.01
PLANT: ANTHOCYANIN COLOURATION (EARLY POD FORMATION STAGE)			
	strong	faint	faint
LEAF: COLOUR			
	green (RHS 137B)	green (RHS 137D)	green (RHS 137C)
STIPULE: DENTATION			
	medium	weak	weak
STIPULE: LENGTH(cm)			
mean	5.63	7.20	8.65
Std deviation	0.13	0.12	0.16
LSD/sig	0.16	P≤0.01	P≤0.01
STIPULE: BREADTH (cm)			
mean	2.68	4.54	4.22
std deviation	0.10	0.13	0.12
LSD/sig	0.16	P≤0.01	P≤0.01

FLOWER: LENGTH OF PEDUNCLE FROM STEM TO FIRST FLOWER (cm)	8-10	8-10	8-10
FLOWER: COLOUR OF STANDARD	violet (RHS 85A)	violet (RHS 85B)	violet (RHS 85B)

'Santi'

Application No: 99/054 Accepted: 3 Mar 1999.
Applicant: **Minister for Primary Industries, Natural Resources and Regional Development,** Adelaide, SA and **Grains Research and Development Corporation,** Barton, ACT.

Characteristics (Table 22, Figure 45) Plant: quality white field pea, height medium, time of flowering mid-season, maturity mid-season (determinate), plant anthocyanin absent. Foliage: colour green (RHS 137C). Leaf: semi-leafless, stipule present, medium stipule dentation at base only, flecking weak to nil, stipule length and breadth 7.53 x 3.64cm. Flower: standard white (RHS 155D) and raised, peduncle length from stem to first flower 8.71cm. Pod: shape straight, no curvature, pod length and maximum width 6.66 x 1.22 cm, pod colour at harvest greyed-orange (RHS 163B), number of ovules 6.6 (average). Seed: shape spherical, size large, shape of starch grain simple, cotyledon colour yellow-orange (RHS 22A), testa colour yellow-white (RHS 158A). Disease resistance: moderately resistant to downy mildew and has shown some slight improvement in resistance to *ascochyta* blight over conventional dun pea varieties. (Note: all RHS colour chart numbers refer to 1995 edition).

Origin and Breeding Controlled pollination: seed parent breeding line M150-1 x pollen parent S.A.1406, with final cross made in 1989. Breeding line M150-1 developed from complex crossing of Early Dun/SA966/SA916. 'Santi' is a sister line of 'Mukta'. The parent plants were distinguishable from 'Santi' in terms of leaf type, testa colour, anthocyanin pigmentation, flower and cotyledon colour as well as resistance to downy mildew. A single-plant, single-row pedigree system was employed. Selection of single plants commenced with the F_2 generation. In the F_3-F_4 generations, emphasis was toward selection among families. 'Santi' entered into replicated yield trials as M257-7-3 in 1993. Selection criteria: increased grain yield, reduced pod shattering at harvest lodging resistance, early maturity and high grain quality. Propagation: by seed. Breeder: S. M. Ali, SARDI, Adelaide, Australia.

Choice of Comparators 'Mukta' was included in the comparative trial as 'Santi' is a sister line of 'Mukta' and is the most similar variety of common knowledge. 'Bohatyr' was selected as a similar white pea variety of common knowledge. 'Santi' is also easily differentiated from the most widely grown white pea variety 'Laura' in term of leaf type and seed size. 'Laura' has leaflets and small seed size compared to 'Santi', which has no leaflets and has large seed size. The parental genotypes were not considered for the trial because 'Santi' is clearly distinguishable from these lines in characteristics stated above.

Comparative Trial Comparators: 'Mukta' and 'Bohatyr'. Location: Charlick Field Experimental Station, University of Adelaide, located 70km south-east of Adelaide, SA. Conditions: plants were raised in fallowed open plots. Trial design: plots arranged in randomised complete blocks, each plot was sown as a paired row 3m in length. The rows were 1m apart. Sowing rate was 40 seeds per plot. Measurements: 10 specimens per replication selected randomly from each plot.

Prior Applications and Sales
No prior applications. First sold in Australia in Apr 1998 under the name M257-7-3.

Description: **S. M. Ali,** SARDI, A division of the Department of Primary Industries and Resources South Australia, Adelaide,SA.

Table 22 *Pisum* varieties

	'Santi'	*'Mukta'	*'Bohatyr'
SEED: TESTA COLOUR	yellow-white (RHS 158A)	orange-white (RHS 159A)	orange-white (RHS 159A)
POD: MAXIMUM WIDTH(cm)			
mean	1.22	1.02	1.06
std deviation	0.10	0.15	0.07
LSD/sig	0.11	P≤0.01	P≤0.01
POD: TYPE OF CURVATURE	absent	absent	medium
POD: NUMBER OF OVULES PER POD			
mean	6.6	6.4	5.2
std deviation	0.52	0.70	0.63
LSD/sig	1.11	ns	P≤0.01
PLANT: HEIGHT	medium	medium	tall
LEAF: COLOUR	green (RHS 137C)	green (RHS 137D)	green (RHS 137A)
LEAF: LEAFLETS	absent	absent	present
STIPULE: FLECKING	weak to nil	sparse	medium
STIPULE: DENTATION	medium at base only	strong entire length	medium at base only
STIPULE: LENGTH (cm)			
mean	7.53	6.11	6.57
std deviation	0. 15	0.11	0.13
LSD/sig	0.15	P≤0.01	P≤0.01
STIPULE: BREADTH (cm)			
mean	3.64	2.69	3.76
std deviation	0.15	0.12	0.14
LSD/sig	0.15	P≤0.01	ns

FLOWER: LENGTH OF PEDUNCLE FROM STEM TO FIRST FLOWER (cm)			
mean	8.71	5.08	8.13
std deviation	0.87	0.23	0.32
LSD/sig	0.63	P≤0.01	ns
DISEASE RESISTANCE			
Downy mildew	moderately resistant	resistant	susceptible

'Soupa'

Application No: 99/027 Accepted: 27 Jan 1999.
Applicant: **Minister for Primary Industries, Natural Resources and Regional Development,** Adelaide, SA and **Grains Research and Development Corporation,** Barton, ACT.

Characteristics (Table 23, Figure 46) Plant: quality blue field pea, height medium, time of flowering late, maturity late (semi-determinate), plant anthocyanin absent. Foliage: colour green (RHS 137C), Leaf: 3-5 sets of leaflets, large stipule, strong dentation along entire length, sparse flecking, stipule length and breadth 8 x 4cm. Flower: standard white (RHS 155D) and raised, peduncle length from stem to first flower 6-8cm. Pod: shape straight, no curvature, pod length and maximum width 7.38 x 1.25cm, pod colour at maturity greyed-orange (RHS 163B), number of ovules 7.8 (average). Seed: shape spherical, size large, shape of starch grain simple, cotyledon colour green (RHS 137A), testa colour green (RHS 138C). Disease resistance: moderately resistant to downy mildew and has shown less susceptibility to *ascochyta* blight over conventional dun pea varieties. (Note: all RHS colour chart number refer to 1995 edition).

Origin and Breeding Controlled pollination: seed parent breeding line M150-1 x pollen parent S.A. 1406, with final cross made in 1989. Breeding line M150-1 developed from complex crossing of Early Dun/ SA966/SA916. 'Soupa' is a sister line of both 'Mukta' and 'Santi'. The parent plants were distinguishable from 'Soupa' in terms of leaf type, stipule size and dentation, flower colour, seed type and size. A single-plant, single-row pedigree system was employed. Selection of single plants commenced with the F_2 generation. In the F_3-F_5 generations, emphasis was toward selection among families. 'Soupa' entered into replicated yield trials as M257-7-2 in 1993. Selection criteria: increased grain yield, seedling vigour, reduced bleaching of blue cotyledon colour at maturity, non-shattering of pod at harvest and high grain quality. Propagation: by seed. Breeder: S. M. Ali, SARDI, Adelaide, SA.

Choice of Comparators 'Bluey' and 'Jupiter' were included in the comparative trial as these are similar varieties of common knowledge. 'Bluey', 'Jupiter' and 'Soupa' are all blue pea varieties. The parental genotypes were not considered for the trial because 'Soupa' is clearly distinguishable from these lines in characteristics stated above. The sister lines 'Mukta' and 'Santi' were not considered because these are white pea varieties.

Comparative Trial Comparators: 'Bluey' and 'Jupiter'. Location: Charlick Field Experimental Station, University of Adelaide, located 70km south-east of Adelaide, SA. Conditions: plants were raised in fallowed open plots. Trial design: plots arranged in randomised complete blocks, each plot was sown as a paired row 3m in length. The rows were 1m apart. Sowing rate was 40 seeds per plot. Measurements: 10 specimens per replication selected randomly from each plot.

Prior Applications and Sales
No prior applications.
First sold in Australia in Apr 1998 under the name M257-7-2.

Description: **S. M. Ali,** SARDI, A division of the Department of Primary Industries and Resources South Australia, Adelaide, SA.

Table 23 *Pisum* varieties

	'Soupa'	***'Bluey'**	***'Jupiter'**
SEED: COLOUR OF COTYLEDON			
	green (RHS 137A)	green (RHS 137A)	green (RHS 137B)
SEED: TESTA COLOUR			
	green (RHS 138C)	green (RHS 138C)	green (RHS 138C)
SEED WEIGHT(100 HARVESTED DRY SEEDS)(g)			
mean	21.56	22.50	25.90
std deviation	0.57	0.89	1.12
LSD/ sig	1.11	ns	P≤0.01
POD: LENGTH(cm)			
mean	7.38	5.47	6.04
std deviation	0.39	0.56	0.10
LSD/sig	0.49	P≤0.01	P≤0.01
POD: MAXIMUM WIDTH(cm)			
mean	1.25	0.97	1.10
std deviation	0.07	0.08	0.06
LSD/sig	0.09	P≤0.01	P≤0.01
POD: NUMBER OF OVULES PER POD			
mean	7.8	4.5	3.7
Std deviation	0.42	0.53	0.48
LSD/sig	0.59	P≤0.01	P≤0.01
LEAF: COLOUR			
	green (RHS 137C)	green (RHS 137A)	green (RHS 137D)
LEAF: LEAFLETS			
	present (3-5 sets)	absent	present (2-3 sets)
LEAF: LEAFLETS DENTATION			
	very strong	absent	very weak
STIPULE:"RABBIT-EARED"STIPULE			
	absent	absent	present
STIPULE: LENGTH(cm)			
mean	8.10	6.5	4.4
std deviation	0.17	0.12	0.15
LSD/sig	0.56	P≤0.01	P≤0.01
STIPULE: BREADTH(cm)			
mean	4.21	3.50	2.10

std deviation	0.12	0.11	0.13
LSD/sig	0.18	P≤0.01	P≤0.01
DISEASE RESISTANCE			
downy mildew	moderately resistant	susceptible	susceptible

FLANNEL FLOWER
Actinotus helianthi

'Starbright'
Application No: 97/067 Accepted: 18 Apr 1997.
Applicant: **Royal Botanic Gardens,** Sydney, NSW.

Characteristics (Table 24, Figures 26a, 26b) Plant: erect bushy shrub, height at flowering medium (mean 60cm), width at flowering wide (mean 28cm) with heavy branching (mean 7 at first flowering). Leaves: medium density on stem, leaf length medium (mean 68mm), width narrow (mean 52mm), large number of tertiary lobes (mean 32), predominant colour RHS 191A, upper leaf strongly pubescent. Stem: white pubescence. Inflorescence: umbel, consisting of flowers subtended by two rows of bracts that reflex on maturity (mean 11), diameter including bracts small (mean 76mm), individual bract length short (mean 35mm) and bract width narrow (mean 8mm), predominant colour RHS 155C. Time of first flowering intermediate. (Note: all RHS chart numbers refer to 1986 edition).

Origin and Breeding Recurrent Phenotypic Selection over nine years: phenotypes from a coastal population (Kurnell, NSW) were screened on the basis of plant habit, suitability for tissue culture and response to cultivated conditions. After 24 cycles of tissue culture and 7 cycles of vegetative propagation 'Starbright' proved to be different from the original population (Population 1) as well as a closely located populations (see Choice of Comparators). In addition, 'Starbright' has been shown to be different from more than 100 other populations collected throughout the natural area of occurrence of *A. helianthi.* Selection criteria: medium bushy habit, ability to be propagated by tissue culture, vigorous growth in cultivation, small-medium numerous flowers. Breeder: employees of the Mount Annan Botanic Garden, Mount Annan, NSW.

Choices of Comparators There were no varieties of common knowledge at the time of this application. Through the wide screening of Flannel Flower selections conducted over nine years, no other varieties similar in their propagation ability, cultivation characteristics or morphological characteristics were observed in cultivation or in the wild. The comparators were therefore the most phenotypically similar plants selected from the source population (within 100 m of collection of source material) ('Population 1') and the next nearest population (300 m from source material) ('Population 2').

Comparative Trial Comparators: Population 1 and Population 2. Location: Mount Annan Botanic Garden Nursery, Mount Annan NSW (Latitude 34º 05´ South, elevation 100m), autumn-spring 1999. Conditions: trial conducted in a polyhouse, plants propagated from cuttings, rooted cuttings potted into 175mm pots filled with soilless potting mix (coir, sand 1:4), nutrition maintained with slow release fertiliser, no pests or diseases recorded. Trial design: fifteen pots of each variety arranged in a completely random design. Measurements: from 13-15 plants of each variety. One sample per plant.

Prior Applications and Sales
No prior applications. First sold in Australia in Sep 1998.

Description: **Cathy Offord and Lotte von Richter,** Mount Annan Botanic Garden, Mount Annan, NSW.

Table 24 *Actinotus* varieties

	'Starbright'	*A. helianthi* Population 1	*A. helianthi* Population 2
PLANT HEIGHT (cm)			
mean	61.3	50.5	74.5
std deviation	8.8	14.2	16.6
LSD/sig	5.8	P≤0.01	P≤0.01
PLANT WIDTH (cm)			
mean	27.9	22.0	19.0
std deviation	2.7	7.3	6.4
LSD/sig	5.8	P≤0.01	P≤0.01
NUMBER OF BRANCHES			
mean	6.9	2.4	2.6
std deviation	3.2	1.4	1.3
LSD/sig	2.1	P≤0.01	P≤0.01
LEAF NUMBER (first 15 cm)			
mean	16.4	19.9	15.9
std deviation	3.4	3.4	2.2
LSD/sig	3.05	P≤0.01	P≤0.01
LEAF LENGTH (mm)			
mean	68.1	81.1	66.5
std deviation	9.3	12.9	16.3
LSD/sig	12.7	P≤0.01	ns
LEAF WIDTH (mm)			
mean	52.5	63.5	54.9
std deviation	9.6	8.6	8.6
LSD/sig	8.8	P≤0.01	ns
NUMBER OF TERTIARY LEAF LOBES			
mean	31.6	29.2	21.1
std deviation	4.8	7.6	5.4
LSD/sig	6.03	ns	P≤0.01
LEAF PUBESCENCE	very high	very high	medium
LEAF COLOUR (RHS 1986)	191A	191A	147B
INFLORESCENCE DIAMETER (mm)			
mean	76.1	82.5	104.2
std deviation	15.2	22.3	18.2
LSD/sig	16.3	ns	P≤0.01
BRACT LENGTH (mm)			
mean	34.7	36.6	46.5
std deviation	3.4	14.2	16.2
LSD/sig	8.5	ns	P≤0.01

BRACT WIDTH (mm)			
mean	7.7	9.7	11.1
std deviation	1.5	3.3	1.8
LSD/sig	2.3	P≤0.01	P≤0.01
BEGINNING FLOWERING TIME (at Mount Annan, NSW)			
	mid Sep	late Sep	early Sep

GAURA
Gaura lindheimeri

'So White'

Application No: 97/292 Accepted: 27 Nov 1997.
Applicant: **Hartley Lewis and Malcolm Lewis,** Buckland Park, SA.

Characteristics (Table 25, Figure 20) Plant: open spreading habit, height medium. Stem: green. Leaf: lanceolate to oblanceolate, margin undulating, colour green (RHS 137A). Inflorescence: diameter 28mm (average), petals 4, petal colour white (RHS 155C), sepals 2, sepal colour green at tips (RHS 141A) fading to greyed-green (RHS 192A), stamens 8, anther colour yellow (RHS 12C) on flower opening changing to yellow-orange (RHS 22A) at maturity of pollen. (Note: all RHS chart refers to 1986 edition.)

Origin and Breeding Open Pollination followed by seedling selection: large quantity of open-pollinated seed was collected from *Gaura lindheimeri* grown in applicant's property. The parental variety was characterised by upright growth habit; cream flowers with pink red tinge to the base of the flower and pronounced purple leaf spotting. 'So White' was selected from the batch of open-pollinated seedlings for the following combination of characteristics. Selection criteria: compact habit, pure white flowers and absence of purple leaf spotting. Propagation: by cuttings. Breeder: Hartley R. Lewis, Buckland Park, SA.

Choice of Comparators 'Snow Cloud' was chosen for its similarity to 'So White' in flower colour. *Gaura lindheimeri* was included because it is the original source material from which the variety was selected. No other similar varieties of common knowledge have been identified.

Comparative Trial: Comparators: 'Snow Cloud', *Gaura lindheimeri*. Location: Buckland Park, SA, summer – autumn 1999. Conditions: trial conducted in polyhouse. Plants propagated from cuttings. Rooted cuttings planted into 250mm pots filled with soilless potting mix (pine bark base). Nutrition maintained with slow release fertiliser, pest and disease treatments applied as required. Trial design: 10 pots of each variety arranged in a completely randomised design. Measurements: from ten plants at random. One sample per plant.

Prior Applications and Sales

First sold in Australia in Oct 1997. Overseas sales nil.

Description: **Hartley Lewis,** Buckland Park SA.

Table 25 *Gaura* varieties

	'So White'	*'Snow Cloud'	*G. lindheimeri
PLANT HABIT	compact spreading	compact spreading	upright open
STEM			
base of stem	137A	138D	61B
mid stem	137A	138D	138B
LEAF COLOUR (RHS, 1986)	137C no leaf spots	138D	138B leaf spots on older leaves 61B
FLOWER COLOUR (RHS, 1986)			
petals	155C	155C	155D
sepals	141A at top fading to192A	141A	66C
FLOWER NUMBERS ON TERMINAL SPIKELETS			
mean	11.1	14.9	35.6
std deviation	0.83	1.04	3.53
LSD/sig	1.35	P≤0.01	P≤0.01
PETAL WIDTH (mm)			
mean	9.55	12.6	11.05
std deviation	0.49	1.37	0.85
LSD/sig	0.39	P≤0.01	P≤0.01
SEPAL LENGTH (mm)			
mean	1.93	1.52	1.41
std deviation	0.064	0.124	0.109
LSD/sig	0.096	P≤0.01	P≤0.01
SPIKE LENGTH (cm)			
mean	13.9	16.9	24.6
std deviation	1.64	2.23	2.24
LSD/sig	1.70	P≤0.01	P≤0.01

KANGAROO PAW
Anigozanthos hybrid

'Bush Pearl'

Application No: 97/060 Accepted: 30 Apr 1997.
Applicant: **Yates Botanicals Pty Ltd,** Somersby, NSW.

Characteristics (Table 26, Figure 21) Plant: habit compact rhizomatous, many inflorescences, height short, flowering 14-16 weeks from tissue culture. Leaf: attitude upright-semi-upright, slightly curved, weakly pubescent margin, length short, width narrow, colour green (RHS 137A-B). Inflorescence: tertiary ramification present, medium total number of flowers. Flower: perianth tube profile parallel to flared distally, perianth lobe reflexing absent to slightly reflexed, perianth tube length medium, perianth tube width narrow-medium, single coloured hairs on perianth tube, ovary and pedicel red-purple (RHS 67A-B), inner perianth tube colour green (RHS 144B), four anthers at top of perianth, anther/pollen colour yellow (RHS 13A), stigma above anthers. (Note: all RHS colour chart numbers refer to 1995 edition.)

Origin and Breeding Controlled Pollination: seed parent 'Bush Lantern' x pollen parent *Anigozanthos flavidus*. The seed parent is a hybrid between *A. bicolor* and *A. humilis*, characterised by yellow flowers. The pollen parent had pink flowers and dwarf growth habit. Hybridisation took place at Somersby, NSW in 1995. Seed were germinated *in vitro* with subsequent individual seedlings multiplied and tested as pot plants and in ground over three years. Selection criteria: flower colour and form, plant habit, disease tolerance, non-seasonal flowering and stable and productive micropropagation performance. Propagation: vegetative by micropropagation. Breeders: Angus Stewart and Mark Bennett, Biotech Innovations Pty Ltd (formerly Biotech Plants Pty Ltd), Somersby, NSW.

Choice of Comparators 'Pink Joey' was chosen for its similar flower and inflorescence form. The seed parent was not considered for the trial because it has a different yellow flower colour. No other similar varieties have been identified.

Comparative Trial Comparator: 'Pink Joey'. Location: Kincumber, NSW, spring-summer 1998/99. Conditions: trial conducted in open beds, plants micropropagated, rooted plants planted into 150mm pots filled with soilless potting mix, nutrition maintained with slow release fertilisers, pest and disease treatments applied as required. Trial design: fifteen pots of each variety arranged in a completely randomised design. Measurements: from ten plants at random. One sample per plant.

Prior Applications and Sales
No Prior Applications. First sold in Australia in 1997.

Description: **Ian Paananen, Crop & Nursery Services**, Central Coast, NSW.

Table 26 *Anigozanthos* varieties

	'Bush Pearl'	***'Pink Joey'**
PLANT HEIGHT (cm) – to top of leaves		
mean	30.8	47.3
std deviation	4.1	3.6
LSD/sig	4.4	P≤0.01
LEAF LENGTH (cm) – basal mature leaf		
mean	24.6	34.3
std deviation	3.4	4.5
LSD/sig	4.6	P≤0.01
NUMBER OF FLOWERS PER INFLORESCENCE – on first flowering stem		
mean	15.9	9.3
std deviation	4.6	2.5
LSD/sig	4.2	P≤0.01
PERIANTH TUBE WIDTH (mm) – at middle tube		
mean	4.0	5.2
std deviation	1.1	0.3
LSD/sig	0.9	P≤0.01
LEAF		
curvature	slight	straight
margin hairs	weak	absent to very weak
FLOWER: REFLEXING OF PERIANTH LOBES	absent to slight	absent
FLOWER: COLOUR OF (RHS, 1995)		
inner perianth	green 144B	green 144A
anther/pollen	yellow 13A	yellow-orange 17B
POSITION OF STIGMA IN RELATION TO ANTHERS	above	level
BEGINNING OF FLOWERING	early	late

KIWIFRUIT
Actinidia deliciosa

'Tomua'
Application No: 98/093 Accepted: 3 Jul 1998.
Applicant: **The Horticulture and Food Research Institute of New Zealand Ltd,** Palmerston North, New Zealand.
Agent: **Collison & Co,** Adelaide, SA.

Characteristics (Table 27, Figure 27) Plant: sex female, ploidy hexaploid, habit moderately vigorous vine, early season maturing (first week of Apr in NZ). Young shoot: velutinous, anthocyanin weak. Stem: medium diameter, red-brown colour (RHS 165A), medium bark covered in bristly hairs and conspicuous grey-orange lenticels colour (RHS 164B-164C), lenticel number medium, bud almost completely buried, few bud hairs visible on dormant canes, leaf scar on dormant canes medium. Leaf: broadly ovate, cuspidate tip, cordate base, leaf bases overlapping, medium density of hairs on main veins of upper surface, few hairs between main veins on upper surface, medium density of hairs on both main veins and between veins on lower surface, flat profile in cross section, margin ciliate, medium puckering on upper side of blade, upper surface medium green colour (RHS 137A –137B), lower surface light green colour (RHS 147B-147C), glaucosity absent on lower surface of blade, variegation absent, spines on main veins of lower side absent, hairs on petiole medium density, anthocyanin colouration on upper side of petiole weak. Inflorescence :predominate number of flowers one. Flower: early, pedicel length long, diameter very large (mean 52.9mm), pedicel hairs medium, number of sepals >5, colour of sepals greenish-brown, petals overlapping, petals curving upwards at tip, petal shoulder present, petal margins crimped, petal primary colour white (RHS 155D), petal base colour light green, petal colour distribution even, petals remain cupped around ovary after pollination, filament colour white, anther colour yellow, number of styles many (mean 41.5), colour of styles white, styles semi-erect and slightly curved, hair at base of styles short, amount of hair on ovary strongly expressed. Fruit: medium size (mean 99g), general shape ovoid, length 79.1mm, maximum width 53.1 mm, minimum width 49.1 mm, cross section at median elliptical, ridging absent, shape of stylar end raised, shape of shoulder on stalk end rounded, sepals present at harvest, adherence of skin to flesh medium (not easy to peel), lenticels absent on skin, skin colour when ripe reddish brown (RHS 165B), hairs on skin medium, type of hair hirsute, distribution of hair uniform, colour of hairs at harvest brown, adherence of hairs to skin when rubbed

weak, core diameter medium-large (mean 13.7 mm), core shape elliptical, core woody spike sometimes present, outer pericarp colour at maturity (fruit soft) light green (RHS 138B-138D), inner pericarp colour at maturity (fruit soft) green (RHS 138B-138D), fruit core colour at maturity (fruit soft) greenish white (RHS 155A-155B), fruit seed colour at harvest, while still in flesh, black (RHS 200A), seed colour when dry, brown (RHS 165A-165B), brix level at maturity for consumption medium (mean 14.3%), titratable acidity at maturity high, vitamin C content medium. Plant: time of vegetative budbreak early (mid Sep), time of beginning of flowering medium (early Nov), time of maturity for harvest medium (early Apr). (Note: all RHS colour chart numbers refer to 1986 edition.)

Origin and Breeding Controlled Pollination: seed parent 'Hayward' x pollen parent DA02_03. The seed parent was characterised by green flesh, medium core, fruit size 100g, tangy flavour, slightly flattened ovoid shape. The pollen parent was chosen because it was one of the earliest flowering males in DA02. Crossing took place in Nov 1983 in New Zealand. From this cross seedling number 47-5-5d, code 'Hort DA1', later named 'Tomua' was selected in 1990. Selection criteria: very early maturing (4-5 weeks ahead of 'Hayward'), medium fruit size, sweet tasting, green coloured flesh, hair easily brushed off. 'Tomua' can be distinguished from the seed parent, 'Hayward' by the shape of the stylar end of the fruit being more pointed, the hairs of the fruit being more bristly and easily removed by light brushing, the skin of the fruit being more reddish-brown, earlier budbreak and flowering date and a harvest date 4 weeks ahead of 'Hayward'. The petals on flowers of 'Tomua' remain cupped around the ovary after pollination whereas those of 'Hayward' rise or fold back to expose the ovary. Propagation: 'Tomua' will be propagated by vegetative cuttings or by grafting on to seedling or clonal *A. deliciosa* rootstocks. Breeders: Russell Lowe, Hinga Marsh, The Horticulture and Food Research Institute of New Zealand Ltd.

Choice of Comparator 'Hayward' is the most common kiwifruit grown world-wide and is the closest similar variety of common knowledge. 'Hayward' is also the seed parent of the candidate variety. The pollen parent was not considered for the trial as kiwifruit plants are dioecious and thus male plants produce no fruit.

Comparative Trial Comparator: 'Hayward'. Location: Te Puke Research Centre, Te Puke, New Zealand (Latitude 37º 49´ South) 1993/97. Conditions: a fully replicated trial was planted in 1990. Rootstocks used were clonal 'Hayward' cuttings. 10 replicates of each selection were planted. Vine spacing was 5m between rows and 6m between plants in the row. Measurements: taken from each plant at random, one sample per plant.

Prior Applications and Sales

Country	Year	Current Status	Name Applied
New Zealand	1994	Granted	'Tomua'
USA	1997	Accepted	'Tomua'
EU	1998	Accepted	'Tomua'
Japan	1998	Accepted	'Tomua'

First sold in Belgium in May 1997. First sale in Australia Nil.

Description: **Russell G. Lowe, The Horticulture and Food Research Institute of New Zealand Ltd**, Te Puke, New Zealand.

Table 27 *Actinidia* varieties

	'Tomua'	*'Hayward'
PLANT CHARACTERISTICS		
sex expression	female	female
ploidy	hexaploid	hexaploid
YOUNG SHOOT CHARACTERISTICS		
hairs	present	present
density of hair	medium	medium
hair type	velutinous	hirsute
anthocyanin coloration in growing tip	weak	absent
STEM CHARACTERISTICS		
colour on upper side of shoot	red-brown	brown
conspicuousness of lenticels	conspicuous	conspicuous
number of lenticels	medium	medium
colour of lenticels	grey-orange	grey-brown
size of bud support	medium	small-medium
visibility of bud	almost buried	almost buried
number of hairs on bud	few	few
LEAF CHARACTERISTICS		
general shape of blade	broadly ovate	broadly ovate
shape of tip of blade	cuspidate	cuspidate
shape of base of blade	cordate	cordate
base arrangement	overlapping	overlapping
margin	ciliate	ciliate
puckering on upper side of blade	medium	medium
colour of upper side of blade	medium	medium-dark
	RHS 137A – 137B	RHS 147A
colour of lower side of blade	light green	light green
	RHS 147B-147C	147C
glaucosity	absent	absent
FLOWER CHARACTERISTICS		
predominate number of flowers	one	one
colour of sepals	greenish-brown	greenish-brown
diameter of 'king' flower	very large	very large
arrangement of petals	overlapping	overlapping
curvature of petals (longitudinal)	curved upwards	curved upwards
orientation of petals after pollination	remain cupped	rise above horizontal
primary colour when open	white	white
type of coloration	self-coloured	self-coloured
base colour of petal	green	green
colour distribution	even	even
attitude of styles	semi-erect	semi-erect
curvature of styles	slightly curved	strongly curved
FRUIT CHARACTERISTICS		
overall size	medium	large
general shape	ovoid	ellipsoidal
cross section at median	elliptical	elliptical
shape of stylar end	raised	flat
shape of shoulder (stalk end)	rounded	rounded

skin colour at maturity	reddish-brown	brown
	RHS 165B	RHS 199A
skin colour change during ripening		
	absent	absent
hairs	present	present
density of hairs	medium	medium
type of hair	hirsute	hirsute
colour of hair	brown	brown
concentration of hairs	uniform	uniform
adherence of hairs to skin		
	weak	strong
core diameter (max)	medium to large	large
core shape cross section		
	elliptical	elliptical
core woody spike	sometimes present	sometimes present
prominence of core woody spike		
	weak	weak
outer pericarp colour	light green	green
	RHS 138B-138D	RHS 138A
inner pericarp colour (locules)		
	green RHS 138B-D	green RHS 138A
core colour at maturity	greenish-white	greenish-white
sweetness (Brix) at maturity		
	medium	low
vitamin C content	medium	medium
titratable acidity (as citric acid) at maturity		
	high	medium
MATURITY CHARACTERISTICS		
time of vegetative budbreak		
	early	medium
time of beginning of flowering		
	medium	late
time of maturity for harvest		
	medium	very late

(Note: all RHS colour chart numbers refer to 1986 edition)

LAVENDER
Lavandula stoechas

‘Darling Crown’
Application No: 95/300 Accepted: 19 Dec 1995.
Applicant: **Kristine and Geofrey Napier,** Martin, WA.
Agent: **Wyve Horticultural Services,** Lilydale, VIC.

Characteristics (Table 28, Figure 23) Plant: semi upright aromatic shrub, size medium to tall. Stem: upright, weakly pubescent. Leaf: opposite, decussate, length mean 36.80mm, width narrow mean 5.3mm, shape linear, mostly straight, margin entire, recurved, acute apex, base sessile, leaf colour green RHS 137A, pubescence weak, aromatic. Inflorescence: spike, peduncle absent. Spike: length mean 21.40mm, mean width 12.5mm. Flower: petal colour purple RHS 79A. Terminal bract: length long mean 19.70mm, width narrow mean 9.20mm, shape linear, margin undulating, colour purple RHS 77B. (Note: all RHS colour chart numbers refer to 1995 edition.)

Origin and Breeding Open pollination followed by seedling selection: ‘Darling Crown’ arose as the result of a single cycle of seedling selection from open pollinated of *Lavandula stoechas* (common form) at applicant’s property at Roleystone, WA. The parental plants were characterised by one single upright flower head where as the selected seedling was characterised by twelve smaller flower heads and bracts radiating outwards from the base of the central upright flower structure. ‘Darling Crown’ has been propagated for at least 5 generations to ensure uniformity and stability. Selection criteria: basal radiating flower spikes, flower and bract colours. Breeder: K Napier, Roleystone, WA. Propagation: vegetative.

Choice of Comparators *Lavandula stoechas* ‘Winter Purple’ was chosen because it is the closest variety of common knowledge. *Lavandula stoechas* (common form) was not considered because it is clearly distinguishable from the candidate by the characteristic stated above.

Comparative Trial Comparator: ‘Winter Purple’. Location: Lilydale, VIC, winter-spring 1999. Conditions: trial conducted in polyhouse, plants propagated from cutting, rooted cuttings planted into 140mm pots filed with soilless potting mix (pine bark base), nutrition maintained with slow release fertilisers, pest and disease treatments applied as required. Trial design: ten pots of each variety arranged in a completely randomised design. Measurements: from all trial plants, one sample per plant.

Prior Applications and Sales Nil.

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

Table 28 *Lavandula* varieties

	‘Darling Crown’	***‘Winter Purple’**
PEDUNCLE		
	absent	present
TERMINAL BRACT LENGTH (mm)		
mean	19.70	16.00
std deviation	2.91	1.56
LSD/sig	2.85	P≤0.01
TERMINAL BRACT LENGTH/WIDTH RATIO		
mean	28.90	23.10
std deviation	3.98	2.42
LSD/sig	4.31	P≤0.01
LEAF LENGTH (mm)		
mean	36.80	30.00
std deviation	2.74	2.83
LSD/sig	3.29	P≤0.01
LEAF LENGTH/WIDTH RATIO		
mean	42.10	36.00
std deviation	2.88	3.23
LSD/sig	3.55	P≤0.01
LEAF COLOUR (RHS, 1995)		
	green	green
	137A	138A
FLOWER PETAL COLOUR (RHS, 1995)		
	purple	violet
	79A	83A
TERMINAL BRACT COLOUR (RHS, 1995)		
	purple	purple-violet
	77B	80B
BASAL SPIKES		
	present	absent

LAVENDER
Lavandula stoechas ssp *pedunculata*

'Willowbridge Wings'

Application No: 98/043 Accepted: 17 Apr 1998.
Applicant: **Willowbridge Perennials,** Tuakau, New Zealand.
Agent: **Greenhills Propagation Nursery,** Tynong, VIC.

Characteristics (Table 29, Figure 24) Plant: semi upright aromatic shrub, size medium to tall. Stem: upright, pubescent. Leaf: opposite, decussate, size long (mean 65.9mm), width narrow (mean 4.9mm), shape linear, mostly straight, margin entire, recurved, acute apex, base sessile, leaf colour green RHS 78B, pubescence strong, aromatic. Inflorescence: spike, peduncle mean length 69.30mm, peduncle colour greyed-green RHS 195B. Spike: mean length 25.20mm, mean width 16.50mm. Flower: colour purple RHS 78B. Terminal bract: length long (mean 44.70mm) width narrow (mean 7.40mm), shape linear, margin undulating, colour green-white RHS 157B. (Note: all RHS colour chart numbers refer to 1995 edition.)

Origin and Breeding Open Pollination followed by seedling selection: 'Willowbridge Wings' arose as the result of a single cycle of seedling selection from open pollinated 'Willowbridge White'Φ at applicant's property in New Zealand. Selection criteria: plant form, growth habit and flower colour. Propagation: vegetative through at least 5 generations. Breeder: W R and L C Young, Willowbridge Perennials, Tuakau, New Zealand.

Choice of Comparators 'Willowbridge White'Φ was chosen because it is the seed parent and is considered to be similar to 'Willowbridge Wings'. 'Marshwood'Φ was chosen because it is suspected as a pollen source.

Comparative Trial Comparator: 'Willowbridge White'Φ, 'Marshwood'Φ. Location: Tynong North, VIC, winter-spring 1999. Conditions: trial conducted in an open field, plants propagated from cutting, rooted cuttings planted into 140mm pots filed with soilless potting mix (pine bark base), nutrition maintained with slow release fertilisers, pest and disease treatments applied as required. Trial design: ten pots of each variety arranged in a completely randomised design. Measurements: from thirty plants at random. One sample per plant.

Prior Applications and Sales

Country	Year	Current Status	Name Applied
New Zealand	1998	Applied	'Willowbridge Wings'

First sold in New Zealand in Nov 1996.

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

Table 29 *Lavandula* varieties

	'Willowbridge Wings'	*'Willowbridge White'Φ	*'Marshwood'Φ
PEDUNCLE LENGTH (mm)			
mean	69.3	70.2	92.7
std deviation	12.54	7.69	11.67
LSD/sig	11.29	P≤0.01	P≤0.01
SPIKE LENGTH (mm)			
mean	25.20	26.60	24.70
std deviation	2.25	3.27	1.83
LSD/sig	3.39	ns	ns
SPIKE WIDTH (mm)			
mean	16.5	14.20	13.70
std deviation	1.43	1.03	1.34
LSD/sig	1.59	P≤0.01	P≤0.01
SPIKE LENGTH/WIDTH RATIO			
mean	1.53	1.88	1.82
std deviation	0.16	0.26	0.27
LSD/sig	0.25	P≤0.01	P≤0.01
TERMINAL BRACT LENGTH (mm)			
mean	44.70	18.60	35.40
std deviation	3.62	1.71	4.88
LSD/sig	4.68	P≤0.01	P≤0.01
TERMINAL BRACT WIDTH (mm)			
mean	7.40	11.20	7.20
std deviation	1.26	2.04	1.48
LSD/sig	2.19	P≤0.01	ns
TERMINAL BRACT LENGTH/WIDTH RATIO			
mean	6.22	1.71	5.23
std deviation	1.31	0.37	1.93
LSD/sig	1.91	P≤0.01	ns
LEAF LENGTH (mm)			
mean	65.90	31.50	51.30
std deviation	6.40	4.70	3.47
LSD/sig	5.59	P≤0.01	P≤0.01
LEAF WIDTH (mm)			
mean	4.90	5.50	3.90
std deviation	0.32	1.08	0.32
LSD/sig	0.87	P≤0.01	P≤0.01
LEAF LENGTH/WIDTH RATIO			
mean	13.54	6.10	13.27
std deviation	1.92	2.33	1.77
LSD/sig	2.76	P≤0.01	ns
LEAF COLOUR (RHS)			
	green 141B	green 138A	green 137C
FLOWER COLOUR (RHS)			
	purple 78B	violet 83A	purple 79A
TERMINAL BRACT COLOUR (RHS)			
	green-white 157B	white 155B	red-purple 74B

PEDUNCLE COLOUR (RHS)			
	greyed-green	green	yellow-green
	195B	140B	144B
HABIT			
	tall	compact	medium compact
LEAF PUBESENCE			
	strong	medium	strong
TERMINAL BRACT SHAPE			
	linear	obovate	linear-elliptical

LILLY PILLY
Syzygium australe

'Elegance'

Application No: 99/030 Accepted: 7 Sep 1999.
Applicant: **Brent E Wilson and A Rex Wilson,** Logan Reserve, QLD.

Characteristics (Table 30, Figure 22) Plant: erect, dense, compact, medium, evergreen perennial shrub. Stem: upright, narrow, internodes medium. Leaf: lanceolate, length small (mean 52.30mm), width medium (mean 17.63mm). Mature leaf colour RHS 147A, partially mature leaf colour RHS 146A, new foliage colour RHS 200B. Flower: sepal 4, petal 4, stamens numerous. (Note: all RHS colour chart numbers refer to 1995 edition).

Origin and Breeding Open Pollination followed by seedling selection: seeds were collected from open pollinated common form of *Syzygium australe* growing in applicant's property in Logan Reserve, QLD. Seeds were germinated and several seedlings were raised for evaluation. One seedling was selected from the batch for its dense compact growth habit and dark coloured leaves. This selection now known as 'Elegance', was vegetative propagated through seven generations to confirm its uniformity and stability. Selection criteria: compact growth habit, dark colour of foliage. Propagation: vegetatively through cuttings. Breeder: Rex Wilson, Logan Reserve, QLD.

Choice of Comparator 'Aussie Boomer'ϕ was chosen as the comparator because of its similarity in the growth habit with the candidate variety. The Qualified Person considers it as the most similar variety of common knowledge. 'Blaze'ϕ, 'Bush Christmas' and 'Tiny Trev'ϕ were excluded because of their distinctly different vegetative form and leaves. The common form of *Syzygium australe* was also excluded because the candidate variety is easily distinguishable by its compact growth habit and dark coloured foliage. No other similar varieties of common knowledge have been identified.

Comparative Trial Comparator: 'Aussie Boomer'ϕ. Location: Kookaburra Park Nursery, Logan Reserve, QLD. Conditions: plants from cuttings raised in 140mm pots grown in full sun. Trial design: 30 plants of each variety arranged in 3 replicates in a completely randomised design. Measurements: from all trial plants.

Prior Applications and Sales Nil.

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

Table 30 *Syzygium* varieties

	'Elegance'	*'Aussie Boomer'ϕ
PLANT HEIGHT (mm)		
mean	327.33	392.33
std deviation	32.87	35.66
LSD/sig	21.16	P≤0.01
LEAF LENGTH (mm) 3rd fully mature leaf from the apex		
mean	52.30	57.40
std deviation	5.11	4.83
LSD/sig	3.07	P≤0.01
LEAF WIDTH (mm) 3rd fully mature leaf from the apex		
mean	17.63	22.33
std deviation	1.87	2.14
LSD/sig	1.24	P≤0.01
LEAF COLOUR (RHS, 1995)		
immature	200B	175C
partially mature	146A	144A
mature	147A	137A
PETIOLE LENGTH (mm) 3rd fully mature leaf from the apex		
mean	3.43	3.93
std deviation	0.50	0.52
LSD/sig	0.31	P≤0.01
STAMEN LENGTH (mm)		
mean	15.07	13.93
std deviation	0.59	0.70
LSD/sig	0.58	P≤0.01

MANDEVILLA
Mandevilla sanderi (syn *Dipladenia sanderi*)

'Guinevere'

Application No: 98/152 Accepted: 28 Sep 1998.
Applicant: **Hans. G. Storm,** Svendborg, Denmark.
Agent: **Redlands Nursery Pty Ltd,** Redland Bay, QLD.

Characteristics (Table 31, Figure 10) Flower: diameter mean 8.27cm, no seams in corolla, colour upperside at anthesis deep pink (57C), underside main colour deep pink (57D), stripe deeper pink (57B), white stripe between the two. Flower bud: colour deep pink (57B), length mean 8.24cm, length unfused portion mean 3.09cm. (Note: all RHS colour chart numbers refer to 1966 edition)

Origin and Breeding Spontaneous Mutation: originated as a spontaneous somatic mutation on *Mandevilla* (syn *Dipladenia*) *sanderi* 'Rosea' growing in applicant's property at Svendborg, Denmark. The parent variety was characterised by deep red flowers and the sport was distinguished by bright lolly pink blooms. It was selected asexually through several generations to ensure uniformity and stability of the distinctive characteristics. Selection criteria: flower colour. Propagation: 'Guinevere' will be commercially propagated by vegetative cuttings. Breeder: Hans G. Storm, Svendborg, Denmark.

Choice of Comparators 'Pale Face'ϕ, 'Wilma's Choice'™, 'Rosea', 'Scarlet Pimpernel'ϕ, 'Cinderella'ϕ and 'Merlin's Magic'ϕ were initially considered for the

comparative trial as these are similar varieties of common knowledge. 'Pale Face'Φ and 'Wilma's Choice'™ were chosen because they have a similar pale pink flower colour to 'Guinevere'. 'Rosea' was included because it is the parental variety from which the candidate was originated. 'Scarlet Pimpernel'Φ and 'Merlin's Magic'Φ have reddish coloured flowers and were therefore excluded, as was 'Cinderella'Φ, which has variegated leaves.

Comparative Trial Comparators: 'Pale Face'Φ, 'Wilma's Choice'™ and 'Rosea'. Location: Redlands Nursery Pty Ltd, Redland Bay, QLD Jan to Oct 1999. Conditions: vegetatively propagated in Jan 1999 and potted to 140mm pots in May 1999 using a sawdust based mix with controlled release fertilizer, placed in full sun and protected by hail cloth. Standard nursery irrigation and pest and disease practices were carried out; no growth treatments were applied. Trial design: completely randomised block design containing 20 replicates of each variety. Measurements: vegetative observations taken from 10 randomly selected plants and floral characteristics recorded on 10 randomly selected flowers at anthesis.

Prior Applications and Sales
First sold in Denmark in 1995. First Australian sale nil.

Description: **Dr KV Bunker**, **Redlands Nursery Pty Ltd,** Redland Bay, QLD.

Table 31 *Mandevilla* (syn *Dipladenia*) varieties

	'Guinevere'	*'Pale Face'Φ	*'Wilma's Choice'™	*Rosea
FLOWER: COLOUR UPPERSIDE AT ANTHESIS (RHS, 1966)				
	57C deep pink	63C light pink	68B medium pink	57A red purple
FLOWER: COLOUR UNDERSIDE AT ANTHESIS (RHS, 1966)				
main colour	57D deep pink	63C light pink	68B medium pink	57C deep pink
stripe	57B deep pink	63B light pink	57C deep pink	53C red
FLOWER BUD: COLOUR (RHS, 1966)				
	57B deep pink	63B light pink	57C deep pink	53C red

PEAR
Pyrus communis

'Corinella'
Application No: 98/188 Accepted: 14 Oct 1998.
Applicant: **R. Anastasio,** Lancaster, VIC.

Characteristics (Table 32, Figure 29) Plant: habit erect, vigour strong. One year old shoots: colour brown, lenticels few, shoot internode length medium (average 32.11mm). Leaf: length medium (average 66.6mm), width broad (average 41.9mm), margin indentation serrate, shape of upper blade acute, shape of base flat, curvature of midrib strong, glands absent. Petiole: length short, (average 23.2mm), stipules absent. Fruit: size large, length long (average 85.6mm), width broad (average 79.8mm), shape concave pyriform, russet very slight, stalk length medium (average 20.7mm), curvature of stalk weak, fruit ground colour at harvest maturity RHS 145A, overcolour absent, margin of eye basin ribbed, eye basin depth medium (average 11.3mm), eye basin width medium (average 29.9mm). Seeds: shape ovate. Season of maturity: late season (Apr 1st, Lancaster, Victoria).

Origin and Breeding Spontaneous mutation: from one branch from grafts of 'Paradise', made onto D9 stock at applicant's property in Lancaster, VIC in 1990. The mutated branch was noted to be different in habit and form and to produce fruit unlike the parent. Grafts were taken in 1994, from which 'Corinella' has been selected. Fruit from 'Corinella' are characterised by large size, green skin colour and pronounced crowns at the base, where as 'Paradise' has very small fruit size and green/yellow skin colour. Selection criteria: large green skinned fruit. Propagation: vegetative by budwood. 'Corinella' will be commercially propagated by vegetative cuttings from the stock plants. Breeder: R. Anastasio, Lancaster, VIC.

Choice of Comparators 'Paradise' was chosen as a comparator because it is the original source material from which the candidate variety was selected. 'Packham Triumph' was selected since it is the most similar variety of common knowledge in terms of similar fruit characteristics and maturity time. No other similar varieties of common knowledge have been identified

Comparative Trial Comparators: 'Paradise', 'Packham Triumph'. Location: Lancaster, VIC, 1995/98. Conditions: trees 4 years old grafted onto *Pyrus calleryana* (D6) planted in large blocks and maintained under normal commercial practice. Trees planted on 6 metre spacings as free standing specimens. Pest and disease treatments applied as required. Trial design: large un-randomised block of commercial planting. Measurements: taken from 12 trees with 80 measurements per variety.

Prior Applications and Sales
A prior application was made in Australia in 1995, which was subsequently withdrawn. (Application number 95/202). First Australian sale nil.

Description: **Leslie Mitchell, Agrisearch Services Pty Ltd**, Shepparton, VIC.

Table 32 *Pyrus* varieties

	'Corinella'	*'Packham Triumph'	*'Paradise'
ONE YEAR OLD SHOOT INTERNODE LENGTH (mm)			
Mid season			
mean	32.11	32.18	40.56
std deviation	5.51	7.13	4.31
LSD/sig	3.07	ns	P≤0.01
WATER SHOOT COLOUR			
	brown	brown	light brown

SHAPE OF VEGETATIVE BUD			
	medium	squat	squat
LEAF BLADE ATTITUDE TO STEM			
	horizontal	slightly upwards	upwards
LEAF BLADE LENGTH (mm) Mid season			
mean	66.61	72.32	51.55
std deviation	4.49	11.71	3.44
LSD/sig	4.69	P≤0.01	P≤0.01
LEAF BLADE BREADTH (mm) Mid season			
mean	41.95	37.76	40.88
std deviation	4.61	6.84	5.01
LSD/sig	2.86	P≤0.01	ns
LEAF BLADE LENGTH/BREADTH RATIO, Mid season			
mean	1.61	1.95	1.28
std deviation	0.22	0.35	0.15
LSD/sig	0.15	P≤0.01	P≤0.01
LEAF BLADE SHAPE OF UPPER BLADE			
	acute	acute	obtuse
LEAF BLADE SHAPE OF LEAF BASE			
	flat	flat	obtuse
CURVATURE OF MIDRIB:			
	strong	strong	weak
LEAF STIPULE			
	absent	present	absent
PETIOLE LENGTH (mm), Mid season:			
mean	23.15	32.53	33.45
std deviation	5.24	4.71	5.16
LSD/sig	2.19	P≤0.01	P≤0.01
FRUIT LENGTH (mm) at maturity			
mean	85.51	83.63	40.43
std deviation	5.49	7.54	3.18
LSD/sig	3.15	ns	P≤0.01
FRUIT BREADTH (mm) at maturity			
mean	79.75	75.16	33.45
std deviation	4.77	4.86	2.81
LSD/sig	2.03	P≤0.01	P≤0.01
FRUIT LENGTH/BREADTH RATIO at maturity			
mean	1.07	1.17	0.96
std deviation	0.06	0.12	0.72
LSD/sig	0.06	P≤0.01	P≤0.01
FRUIT GROUND COLOUR (Harvest maturity)			
	145A	145A	145A
FRUIT OVERCOLOUR (Harvest maturity)			
	145A	145A	34B
FRUIT RUSSET (Harvest maturity)			
	slight/absent	medium	slight/absent
FRUIT STEM LENGTH (mm), (Harvest maturity)			
mean	20.67	31.81	11.16
std deviation	4.05	6.54	3.07
LSD/sig	2.73	P≤0.01	P≤0.01
FRUIT STEM THICKNESS (mm), (Harvest maturity)			
mean	4.49	4.35	4.13
std deviation	0.55	0.69	0.58
LSD/sig	0.29	ns	P≤0.01
FRUIT CURVATURE OF STALK, (Harvest maturity)			
	weak	medium	absent
FRUIT MARGIN OF EYE BASIN, (Harvest maturity)			
	ribbed	very slightly ribbed	even
FRUIT EYE BASIN DEPTH (mm), (Harvest maturity)			
mean	11.25	11.95	2.91
std deviation	2.61	2.24	0.77
LSD/sig	1.09	ns	P≤0.01
FRUIT EYE BASIN WIDTH (mm), (Harvest maturity)			
mean	29.91	30.9	16.71
std deviation	4.27	5.12	1.85
LSD/sig	2.14	ns	P≤0.01
SHAPE OF SEEDS, (Harvest maturity)			
	ovate	ovate	even
SEASON OF MATURITY, Harvest Date (Lancaster, VIC)			
	Feb 3rd	Feb 25th	Apr 1st

POTATO
Solanum tuberosum

'FL 1867'

Application No: 99/186 Accepted: 1 Dec 1999.
Applicant: **Frito-Lay Co**, Rhinelander, Wisconsin, USA.
Agent: **The Smith's Snackfood Co Ltd,** Rydalmere, NSW.

Characteristics (Table 33, Figure 48) Plant: stem-type, habit erect, height medium, early-mid season maturing. Stem: anthocyanin absent, medium thickness, straight single wings of medium prominence, no swelling at nodes. Leaf: colour mid green, silhouette open, lower surface glabrous. Leaflet: size medium, shape narrowly-ovate with acute tip (terminal leaflet), waviness of margin weak, depth of veins medium, anthocyanin of blade in apical rosette absent, medium glossiness of upperside, frequency of secondary leaflets medium on terminal leaflet and low on lateral leaflets, size of secondary leaflets on laterals small. Petioles: anthocyanin absent. Inflorescence: size large, frequency of flowers high, bud persistence high, anthocyanin colouration of bud absent-very weak, anthocyanin colouration of peduncle absent. Flower corolla: size large, colour of inner side predominantly white (RHS 155C, 1995), some white-very pale red-violet. Anthocyanin colouration on outer side absent, anthocyanin colouration of inner side of coloured flower very weak. Fruit: frequency medium. Tuber: oval, shallow depth of eyes, skin smooth, colour light-brown to brown, eyebrows not prominent, flesh colour white, no anthocyanin colouration of skin in reaction to light. Lightsprout: size large, shape conical, weak red-violet anthocyanin colouration of base, pubescence of base weak, tip size medium, habit of tip closed, anthocyanin at tip absent-weak, medium pubescence of tip, number of root tips medium, protrusion of lenticels medium, short lateral shoots. Resistance: resistant to golden nematode. Specific gravity high.

Origin and Breeding Controlled Pollination: seed parent 'Atlantic' x pollen parent 'FL 162'. 'Atlantic' is a widely used crisping variety and was chosen as a parent because of its characteristically high dry matter content, good yield, good processing quality and resistance to potato cyst nematode. The pollen parent was developed by Frito-Lay Co in USA. It is heat tolerant, *Verticillium* wilt resistant, has high solids content and is of high processing quality when fresh and after storage. Hybridisation took place in Wisconsin, USA in 1989. A tuber from each of the resultant botanical seeds was field-planted in 1990. Field selections were based on tuber size, number, shape, absence of external defects. Further field selections were evaluated for internal defects. RD 7-90-20 was selected in 1991. Analysis of solids content and crisping quality resulted in RD 7-90-20's further selection and redesignation as 'FL 1867'. It was entered into large-scale national trials in 1994, in areas of fresh potato production. 'FL 1867' has similar processing characteristics to 'Atlantic' but plant height, flower colour and stem anthocyanin are distinguishing features. Propagation: tissue culture of pathogen-free tissue, mini-tuber and tuber production through eight generations confirmed the progeny were stable. Breeder: Drs. Martin Cipar and Robert W Hoopes, Frito-Lay Co., Rhinelander, Wisconsin, USA.

Choice of Comparators 'Atlantic' was chosen as the most appropriate comparator for 'FL 1867' since it is the seed parent and is the most commonly used crisping variety in Australia. 'Smith's Astra'(ϕ has similar lightsprout characteristics to 'FL 1867', but is clearly distinguishable from FL 1867 by tuber skin texture.

Comparative Trial The candidate description is based on the official South African UPOV description of the variety. This report is identified as UPOV: TG/23/5: 86-11-21. The testing period was during 1997. The Applicant's 'Potato Objective Description' report derived from comparative field trials in Canada and USA, was also consulted. This report is identified by its Canadian registration number I-257, and date July 20, 1999. The characteristics of 'Smith's Astra'(ϕ are as published in 1999 PVJ 12(1) 48 and derived from an Australian comparative trial. The 1999 Australian lightsprout comparative trial was established at Scholefield Robinson Horticultural Services Pty Ltd, Netherby, SA. The essential differences between 'FL 1867' and the comparator, 'Atlantic', are given in the comparative table. Australian lightsprout data are given in parentheses.

Prior Applications and Sales

Country	Year	Current Status	Name Applied
South Africa	1997	Granted	'FL 1867'

First sold in USA in June 1998. First Australian sale nil.

Description: **Prue McMichael**, **Scholefield Robinson Horticultural Services Pty Ltd**, Netherby, SA.

Table 33 *Solanum* varieties

	'FL 1867'	*'Atlantic'	*'Smith's Astra'ϕ
LIGHTSPROUT			
size	large (small-medium)	(medium)	small
shape	conical (ovoid)	broad cylindrical (ovoid)	spherical
anthocyanin colouration of base			
	red-violet (red-violet)	blue-violet (blue-violet)	red-violet
intensity of anthocyanin colouration of base			
	absent-weak (weak)	medium (medium)	weak
pubescence of base			
	weak (weak)	strong (medium)	very weak
size of tip	medium (medium-large)	(medium)	medium
habit of tip	closed (medium)	closed (medium)	closed
intensity of anthocyanin colouration of tip			
	weak (absent)	absent (absent)	weak
pubescence of tip			
	medium (weak-medium)	weak (medium)	very weak
number of root tips			
	(medium)	medium (medium)	few
protrusion of lenticels			
	medium (medium)	strong (medium-) strong	weak
length of lateral shoots			
	short (short)	medium (short)	weak
PLANT			
height	medium	tall	n/a
type	stem-type	intermediate	n/a
growth habit	spreading	semi-erect	n/a
time of maturity	early-mid season	mid season	medium-late
STEM			
thickness of main stem			
	medium	medium	n/a
extension of anthocyanin colouration			
	absent	medium	absent
LEAF			
size	large	n/a	medium
silhouette	open	medium	open
colour	medium-green	olive-green	dark-green
intensity of green colour			
	medium	medium	dark
extension of anthocyanin colouration in midrib			
	weak	n/a	absent
lower surface pubescence			
	glabrous	pubescent	n/a

LEAFLET			
size	medium	medium	medium
frequency of coalescence			
	low	n/a	n/a
waviness of margin			
	weak	weak	medium
depth of veins	medium	n/a	n/a
anthocyanin of blade at apical rosette			
	absent	n/a	absent
glossiness of upperside			
	medium	medium-dull	medium
frequency of secondary leaflets (on terminal leaflet)			
	medium	n/a	n/a
frequency of secondary leaflets (on lateral leaflet)			
	low	n/a	low
size of secondary leaflets on laterals			
	small	n/a	large
INFLORESCENCE			
size	large	n/a	n/a
anthocyanin colouration of peduncle			
	absent	absent	absent
frequency of flowers			
	high	medium	medium-high
anthocyanin colouration of bud			
	absent-very weak	medium	absent
FLOWER COROLLA			
size	medium	small	n/a
colour of inner side			
	white (RHS 155C)	purple-violet (RHS 82D)	white
intensity of anthocyanin colouration of inner side in coloured flower			
	very weak	medium	n/a
anthocyanin colouration of outer side in white flower			
	absent	n/a	absent
FRUIT			
frequency of fruits			
	medium	medium	few
TUBER			
shape	round (round-oval)	oval (round)	round n/a
depth of eyes	shallow	intermediate	n/a
smoothness of skin			
	smooth	netted-russet	flaky
colour of skin	yellow (light-brown)	brown	russet
colour of base of eyes			
	yellow	n/a	n/a
colour of flesh	white (white)	white (white)	white
anthocyanin colouration of skin in reaction to light			
	absent	n/a	n/a

*Note: Characteristics of 'FL 1867' are derived from the official (UPOV) South African description. The characteristics of 'Atlantic' are based on those described from Canadian comparative field trials (that included FL 1867). The characteristics of 'Smith's Astra'(D) are derived from an Australian comparative trial report [PVJ 12 (1)48]. The data in parentheses are from the Australian comparative lightsprout trial and observation of Australian-grown tubers.

PUMPKIN
Cucurbita maxima

'Dulong QHI'

Application No: 97/309 Accepted: 21 Nov 1997.
Applicant: **The State of Queensland through its Department of Primary Industries,** Brisbane, QLD.

Characteristics (Table 34, Figure 49) Plant: growth habit trailing. Stem: colour green, mostly dark green (RHS 133A) with lighter green (RHS 146C) striped. Leaf Blade: size medium, intensity of green colour upper side medium (RHS 146A). Petiole: length medium, thickness at base medium. Female flower: length of sepal medium, sepals tend to be petalous, intensity of orange colour of pistil at opening medium (RHS 12A). Male flower: length of pedicel medium, diameter of pedicel medium, intensity of green colour of pedicel light, hairiness of pedicel weak, length of sepal medium. Fruit: main colour of pedicel green otherwise corky, size medium, length medium, diameter medium, shape in longitudinal cross section transverse elliptic, shape of stalk-end depressed, shape of apical (blossom end) depressed to flat, grooves present and slightly to moderately deep with medium distance between grooves, number of colours on skin one or two, main colour of skin grey (RHS 198A), intensity of main colour light to medium, secondary colour of skin grey (198B) distribution of secondary colour marbled, texture of surface smooth, warts absent, medium thickness of flesh, main colour of flesh orange (RHS 21A), intensity of main colour of flesh medium. Seed: size medium, shape elliptic, seed surface smooth, seed colour brownish (164C), colour of margins yellowish white (9D) weight of 1000 seeds medium (174g). (Note: all RHS colour chart numbers refer to 1995 edition).

Origin and Breeding Controlled and open pollination followed by selection at each stage: *C. maxima* 'Queensland Blue' (Selected Strain) was crossed with *C. ecuadorensis* followed by three backcrosses to 'Selected', 'Large'(Yates Seed Co), and 'Wallworks' strains of 'Queensland Blue', followed by 2 generations of self-pollination and 2 generations of open-pollination, selected separate plants crossed to 'Jarrahdale' (Yates) and to 'W19' [a selection of parentage similar to above] and the resultant progeny were intercrossed, followed by a generation of self-pollination, intercrossed resultant selections, then 1 generation of self-pollination, out-crossed to 'Jarrahdale' (New World), then 7 generations of open pollination (in which initial population included the population of the above crossed with 'Jarrahdale' (SPS), followed by two generations of self-pollination then one generation of open-pollination as combined lines 3214 and 3218. From these lines, through open pollination a uniform stable line known as 3287 was selected to become 'Dulong QHI'. The original seed parent and all commercial parents in the ancestry were characterised by susceptibility to papaya ringspot virus type w and to zucchini yellow mosaic virus and the original pollen parent was characterised by weedy vine growth and white fleshed fruit. Trials conducted at Redlands, Maroochy and Bowen Research Stations of Queensland Department of Primary Industries. Selection criteria: resistance to potyviruses (papaya ringspot virus type w, zucchini yellow mosaic virus, watermelon mosaic virus), yield, grey skinned fruit, and good flesh and consumer characteristics.

Propagation: by seed. Breeder: M. Herrington[1], R. Wright[2], S. Prytz[1] and D. Persley[3], Queensland Horticulture Institute, Nambour[1], Bowen[2], Indooroopilly[3], Queensland Department of Primary Industries, QLD, Australia.

Choice of Comparators 'Jarrahdale', 'Queensland Blue', 'Eudlo QHI' and 'Redlands Trailblazer' were initially considered for the comparative trial as these are similar varieties of common knowledge. 'Queensland Blue' is an older available commercial variety and one of the early parents, however it is highly susceptible to viruses and has dark skin. Therefore it was excluded from the trial. 'Eudlo QHI' was chosen because of its similar pedigree, its high virus resistance and moderately similar fruit type, however it has variable seed colour and a low tendency to produce petalous sepals on female flowers. 'Redlands Trailblazer' was chosen for its high virus resistance, but has white seed. The ancestral parent *C. ecuadorensis* was not considered for the trial because *C. ecuadorensis* has a commercially unacceptable weedy plant growth habit, creamy flowers, and white fleshed fruit, which clearly distinguish it from 'Dulong QHI'. Although virus susceptible the most recently used parent 'Jarrahdale' (SPS) was included as a parent in the comparative trial.

Comparative Trial Comparators: 'Jarrahdale', 'Eudlo QHI' and 'Redlands Trailblazer'. Location: Maroochy Research Station, Nambour, QLD (latitude 26º37´. South, longitude 152º57´ east, elevation 29m), Mar to Aug 1999. Conditions: trial conducted in field, sown in cells then transplanted to field, overhead irrigated, nutrition maintained with fertiliser applications based on soil test, pest and disease treatments applied as required. Spacings 5m between rows, 2 m between plants within rows. Trial design: randomised complete block design with 5 blocks and 4 plants per plot, with an additional plant of 'Dulong QHI' in each block. Measurements: plants or external characteristics of fruit mostly from twenty individual plants, internal fruit characteristics from mature fruit of ten plants per cultivar. One sample per plant except 2 per plant (flower) for length of sepals.

Prior Applications and Sales Nil.

Description: **M. E. Herrington, Maroochy Research Station**, Nambour QLD.

Table 34 *Cucurbita* varieties

	'Dulong' QHI'	*'Eudlo QHI'	*'Redlands Trailblazer'	*'Jarrahdale'
STEM: COLOUR				
	green, dark (133A) with lighter (146C) stripes	green, dark (133A) with lighter (137B) stripes	green, dark (133A) with lighter (146C) stripes	green, uniform (146A)
LEAF BLADE: WIDTH (mm)				
mean	307	283	244	277
std deviation	21.97	17.50	19.95	19.26
LSD/sig	25.4	ns	P≤0.01	P≤0.01
LEAF BLADE: LENGTH (mm)				
mean	197	183	167	186
std deviation	24.20	25.03	28.38	30.30
LSD/sig	19.7	ns	P≤0.01	ns
LEAF BLADE: LENGTH/WIDTH RATIO				
mean	0.640	0.649	0.682	0.673
std deviation	0.032	0.032	0.036	0.029
LSD/sig	0.028	ns	P≤0.01	P≤0.01
PETIOLE: THICKNESS(at base, mm)				
mean	14.9	13.0	12.4	13.7
std deviation	1.59	1.36	1.81	1.66
LSD/sig	1.5	P≤0.01	P≤0.01	ns
FEMALE FLOWER: LENGTH OF SEPAL (mm)				
mean	15.5	12.5	7.4	20.9
std deviation	3.85	1.95	1.37	4.52
LSD/sig	5.3	ns	P≤0.01	P≤0.01
FEMALE FLOWER: LENGTH OF PEDICEL (mm)				
mean	25	21	15	27
std deviation	6.8	3.0	5.8	3.9
LSD/sig	8	ns	P≤0.01	ns
FEMALE FLOWER: PETALOUSNESS OF SEPALS (number of plants with flowers)				
petalous	14	0	0	0
nonpetalous	2	17	4	6
MALE FLOWER: LENGTH OF SEPAL (mm)				
mean	19.7	20.2	12.8	24.1
std deviation	3.55	3.08	2.00	3.08
LSD/sig	3.0	ns	P≤0.01	P≤0.01
FRUIT: SIZE (g)				
mean	3249	3507	2071	4644
std deviation	800	1091	460	1543
LSD/sig	755	ns	P≤0.01	P≤0.01
FRUIT: SIZE				
	medium	medium	small	medium to large
FRUIT: LENGTH (mm)				
mean	120	142	134	148
std deviation	9.5	21.2	13.1	19.6
LSD/sig	17	P≤0.01	ns	P≤0.01

FRUIT : DIAMETER (mm)				
mean	226	224	175	239
std deviation	18.0	19.2	14.7	27.8
LSD/sig	21	ns	P≤0.01	ns
FRUIT : LENGTH/DIAMETER RATIO				
mean	0.536	0.637	0.762	0.624
std deviation	0.042	0.097	0.061	0.072
LSD/sig	0.064	P≤0.01	P≤0.01	P≤0.01
FRUIT: SHAPE IN LONGITUDINAL CROSS SECTION				
	transverse elliptic	transverse elliptic	circular elliptic	transverse elliptic
FRUIT: SHAPE OF STALK END				
	depressed	depressed	flat	depressed to flat
FRUIT: SHAPE OF APICAL (blossom) END				
	depressed to flat	depressed to flat	flat	depressed
FRUIT: GROOVES				
	slight to moderate grooves	slight to moderate grooves	very slight	moderate grooves
FRUIT DISTANCE BETWEEN GROOVES (mm)				
mean	70	73	56	72
std deviation	10.4	9.5	8.4	13.0
LSD/sig	9.6	ns	P≤0.01	ns
FRUIT: NUMBER OF COLOURS OF SKIN				
	one to two	one to two	one	one to two
FRUIT: MAIN COLOUR OF SKIN				
	grey (198A)	grey (198A)	grey (198A) uniform	grey (198B)
FRUIT: INTENSITY OF MAIN COLOUR OF SKIN				
	light to medium	light to medium	medium to light	medium to light
FRUIT: SECONDARY COLOUR OF SKIN				
	grey (198B)	grey (198C)	grey (198A) uniform	grey (198C)
FRUIT: THICKNESS OF FLESH (mm)				
mean	50	47	31	51
std deviation	6.7	6.4	3.2	10.8
LDS/sig	9	ns	P≤0.01	ns
FRUIT: MAIN COLOUR OF FLESH				
	orange (21A)	variable, yellow 2/10, orange (21A) 7/10, and cream (8C)1/10	orange (21A)	orange (21A)
FRUIT: INTENSITY OF MAIN COLOUR OF FLESH				
	medium	medium, variable	medium	medium to dark
SEED: WIDTH (mm)				
mean	9.6	10.3	10.8	9.8
std deviation	0.39	1.09	0.49	0.60
LSD/sig	1.0	ns	P≤0.01	ns
SEED: LENGTH/WIDTH RATIO				
mean	1.57	1.55	1.33	1.61
std deviation	0.056	0.114	0.083	0.104
LSD/sig	0.14	ns	P≤0.01	ns
SEED: COLOUR (RHS, 1995)				
	brownish (164 C)	mixed, 28% whitish (155D) and 72% yellowish brownish (165D)	whitish (155D)	yellowish brownish (165D)
SEED: COLOUR OF MARGIN) (RHS 1995)				
	whitish to yellowish (9D)	whitish to yellowish (10D)	whitish (155D)	whitish to yellowish (11C)
SEED: WEIGHT OF 1000 DRY SEEDS (g)				
mean	174	206	169	227
std deviation	38.47	40.43	15.86	43.29
LSD/sig	55.7	ns	ns	P≤0.01

DESCRIPTIONS

ROSE
Rosa

‘Baby Jack’
Application No: 98/158 Accepted: 18 Sep 1999.
Applicant: **Kay-D-Tee,** Silvan, VIC.

Characteristics (Table 35, Figure 1) Plant: habit miniature bushy, height medium, width narrow. Stem: anthocyanin strong, colouration reddish brown. Prickles: present, lower surface deeply concave, small thorn density absent, large thorn density medium. Leaf: size medium, colour at first flowering medium green, upper surface glossiness weak, cross section flat, margin undulation medium. Terminal leaflet: length medium (30mm-47mm), width medium (17mm-26mm), base shape rounded. Flowering shoot: number of flowers many. Flower pedicel: number of hairs many. Bud: shape of longitudinal section just before petal separation ovate. Flower: type double, number of petals medium (25-35), diameter medium (51mm-66mm), view from top irregularly round, profile; upper flat, lower flattened convex, fragrance medium. Sepal: extensions weak. Petals: size medium, inside surface colour; middle zone RHS 157B, marginal zone RHS 65D, basal spot absent, outer surface colour; middle zone RHS 157B, marginal zone RHS 157B, basal spot absent, reflex at margin weak, margin undulation medium. Stamen filament: colouration orange. Seed vessel: size at petal fall medium. Hip: pitcher shaped. Time of flowering: medium (early November). Flowering habit: almost continuous. (Note: all RHS colour chart number refers to 1995 edition.)

Origin and Breeding Spontaneous mutation: from ‘Benfig’⑪. The parent is characterised by its porcelain pink flowers, upright habit, and prolific flowering. Selection of the sport took place in Silvan, VIC in 1995 on the basis of

unique flower colour. Selection criteria: uniqueness of colour, cut flower potential, pot and garden use, development on own roots. Propagation: a number of cuttings were taken from the mutated stem to build up stock plants, several further generations were propagated and were found to be uniform and stable. 'Baby Jack' will be commercially propagated by vegetative cuttings from the stock plants. Breeder: Janene Neil, Silvan, VIC.

Choice of Comparators 'Benfig'Φ and 'Benjen' were considered as the similar varieties of common knowledge. 'Benfig'Φ was also considered because it was the parent. The variety 'Benjen' has similar bush shape and flower colour.

Comparative Trial Comparator: 'Benfig'Φ and 'Benjen'. Location: Silvan, VIC, Nov 1998-Nov 1999. Conditions: trial conducted in an unheated polyhouse, plants propagated from cutting, rooted cuttings planted into 250mm pots filed with scoria as part of a hydroponic system, pest and disease treatments applied as required. Trial design: twenty pots of four plants per pot for each variety arranged in separate single rows. Measurements: from ten plants per variety at random.

Prior Applications and Sales
First sold in Australia in Sep 1997. No prior overseas sales.

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

Table 35 *Rosa* varieties

	'Baby Jack'	*'Benfig'Φ	*'Benjen'
YOUNG SHOOT ANTHOCYANIN (1 = absent, 9 = very strong)	strong	strong	weak
YOUNG SHOOT (hue of anthocyanin colour)	bronze to reddish-brown	bronze to reddish-brown	reddish-brown
TERMINAL LEAFLET (shape of base)	rounded	obtuse	rounded
FLOWER PEDICLE (number of hairs)	many	many	medium
NUMBER OF PETALS			
mean	30	26.6	24.2
std deviation	3.16	4.32	2.35
LSD/sig	3.80	ns	P≤0.01
FLOWER DIAMETER (mm)			
mean	58.70	63.80	70.40
std deviation	4.62	7.74	5.95
LSD/sig	6.78	ns	P≤0.01
FLOWER (side view of upper part)	flat	flattened convex	flat
FLOWER (side view of lower part)	convex	flat	flat
FLOWER FRAGRANCE	medium	medium	strong
SEPAL EXTENSIONS	weak	weak	medium
COLOUR OF MIDDLE SECTION INNERSIDE OF PETAL (RHS, 1995)	RHS 157B	RHS 65C	RHS 69B
COLOUR OF MARGINAL SECTION INNERSIDE OF PETAL (RHS, 1995)	RHS 65D	RHS 65A	RHS 69B
BASAL SPOT INNERSIDE	absent	present	present
PETAL: SIZE OF BASAL SPOT INNERSIDE OF PETAL	absent	large	very large
COLOUR OF BASAL SPOT INNERSIDE OF PETAL (RHS, 1995)	absent	157A	157B
COLOUR OF MIDDLE SECTION OUTERSIDE OF PETAL (RHS, 1995)	157B	155C	155C
COLOUR OF MARGINAL SECTION OUTERSIDE OF PETAL (RHS, 1995)	157B	65D	155C
PETAL: REFLEX OF MARGIN	weak	strong	strong
PETAL: UNDULATION OF MARGIN	medium	weak	absent
SEED VESSEL SIZE (at petal fall)	medium	medium	small

'Benmable' syn Benardella's Waltz

Application No: 98/161 Accepted: 18 Sep 1999.
Applicant: **Harlane Rose Specialists,** Englishtown, New Jersy, USA.
Agent: **Kay L Neil,** Kay-D-Tee, Silvan, VIC.

Characteristics (Table 36, Figure 2) Plant: habit miniature bushy, height medium, width medium. Stem: anthocyanin strong, colouration reddish brown. Prickles: present, lower surface deeply concave, small thorn density absent, large thorn density few. Leaf: size medium, colour at first flowering dark green, upper surface glossiness medium, cross section flat, margin undulation medium. Terminal leaflet: length medium (38mm-67mm), width medium (20mm-33mm), base shape obtuse. Flowering shoot: number of flowers very many. Flower pedicel: stiff hairs number medium. Bud: shape of longitudinal section just before petal separation broad ovate. Flower: type double, number of petals medium (21-25), diameter medium (42mm-50mm), view from top irregularly round, profile; upper flattened convex, lower flattened convex, flower does not tend to open fully, fragrance absent. Sepal: extensions weak. Petals: size medium, inside surface colour; middle zone RHS 57B, marginal zone RHS 57A, basal spot RHS 156C, outer surface colour; middle zone RHS 58B, marginal zone RHS 58B, basal spot large, basal spot RHS

156D, reflex at margin medium, margin undulation weak. Stamen filament: colouration yellow. Seed vessel: size at petal fall large. Hip: pitcher shaped. Time of flowering: medium (early November). Flowering habit: almost continuous. (Note: all RHS colour chart number refers to 1995 edition.)

Origin and Breeding Controlled pollination: seed parent 90-9041 x pollen parent 'Benmagic'(ф). The seed parent was characterised by its red/cream bi-colour flowers, upright habit, and dark green foliage. The pollen parent was characterised by its pink/cream bi-colour flowers, glossy leaves, and large amounts of flower buds per stem. Hybridisation took place in Englishtown, NJ, USA in 1994. From this cross, the seedling was chosen on the basis of flower colour. Selection criteria: uniqueness of colour, show and cut flower potential, pot and garden use, development on own roots. Propagation: a number of mature stock plants were generated from this seedling through vegetative propagation and were found to be uniform and stable. 'Benmable' will be commercially propagated by vegetative cuttings from the stock plants. Breeder: Frank A. Benardella, Englishtown, NJ, USA.

Choice of Comparators 'Benmagic'(ф) was considered as the most similar variety of common knowledge on the basis of flower colour, bud size and shape. 'Benmagic'(ф) was also the pollen parent. Seed parent (90-9041) was not considered because it differs from the candidate in characteristics stated above. Of the Benardella range of varieties the characteristics of 'Benmagic'(ф) most closely resembles to the candidate.

Comparative Trial Comparator: 'Benmagic'(ф). Location: Silvan, VIC, Nov 1998-Nov 1999. Conditions: trial conducted in an unheated polyhouse, plants propagated from cutting, rooted cuttings planted into 250mm pots filed with scoria as part of a hydroponic system, pest and disease treatments applied as required. Trial design: twenty pots of four plants per pot for each variety arranged in separate single rows. Measurements: from ten plants per variety at random.

Prior Applications and Sales
First sold in Australia in Sep 1997. No prior overseas sales.

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

Table 36 *Rosa* varieties

	'Benmable'	*'Benmagic'ф
LEAF WIDTH (mm) – terminal leaflet		
mean	26	31
std deviation	3.79	4.66
LSD/sig	3.26	P≤0.01
LEAF LENGTH (mm) – terminal leaflet from base to tip		
mean	49	55
std deviation	8.60	6.01
LSD/sig	5.39	P≤0.01
LEAF GREEN COLOUR AT FIRST FLOWERING	dark	medium
LEAF GLOSSINESS OF UPPERSIDE	medium	strong
TERMINAL LEAFLET (shape of base)	obtuse	rounded
FLOWER PEDICLE (number of hairs)	many	few
FLOWER FRAGRANCE	absent	very weak
SEPAL EXTENSIONS	absent	very weak
COLOUR OF MIDDLE SECTION INNERSIDE OF PETAL (RHS, 1995)	57B	156D
COLOUR OF MARGINAL SECTION INNERSIDE OF PETAL (RHS, 1995)	57A	57A
BASAL SPOT INNERSIDE	present	absent
COLOUR OF MIDDLE SECTION OUTERSIDE OF PETAL (RHS, 1995)	58B	156D
COLOUR OF MARGINAL SECTION OUTERSIDE OF PETAL (RHS, 1995)	58A	57D
BASAL SPOT OUTERSIDE	present	absent

'Benmjul' syn Benardella's Ruby

Application No: 98/162 Accepted: 18 Sep 1999.
Applicant: **Harlane Rose Specialists,** Englishtown, New Jersy, USA.
Agent: **Kay L Neil,** Kay-D-Tee, Silvan, VIC.

Characteristics (Table 37, Figure 3) Plant: habit miniature bushy, height medium, width narrow. Stem: anthocyanin strong, colouration bronze to reddish brown. Prickles: present, lower surface deeply concave, small thorn density absent, large thorn density medium. Leaf: size medium, colour at first flowering medium green, upper surface glossiness weak, cross section flat, margin undulation medium. Terminal leaflet: length medium (37mm-61mm), width medium (21mm-33mm), base shape rounded. Flowering shoot: number of flowers medium. Flower pedicel: stiff hairs number medium. Bud: shape of longitudinal section just before petal separation ovate. Flower: type double, number of petals medium (22-30), diameter medium (52mm-70mm), view from top irregularly round, profile; upper flattened convex, lower flat, fragrance medium. Sepal: extensions weak. Petals: size medium, inside surface colour; middle zone RHS 57C, marginal zone RHS 57A, basal spot size medium, basal spot RHS 155A,

outer surface colour; middle zone RHS 57C, marginal zone RHS 57B, basal spot medium, basal spot RHS 155C, reflex at margin medium, strong undulation weak. Stamen filament: colouration yellow. Seed vessel: size at petal fall medium. Hip: pitcher shaped. Time of flowering: medium (early November). Flowering habit: almost continuous. (Note: all RHS colour chart number refers to 1995 edition.)

Origin and Breeding Controlled Pollination : seed parent 'Benjen' x pollen parent 'Benmagic'(ф. The seed parent was characterised by its pale bluey-pink flowers, upright habit, and strong fragrance. The pollen parent was characterised by its pink/cream bi-colour flowers, glossy leaves, and large amounts of flower buds per stem. Hybridisation took place in Englishtown, NJ, USA in 1994. From this cross, the seedling was chosen on the basis of flower colour. Selection criteria: uniqueness of colour, show and cut flower potential, pot and garden use, development on own roots. Propagation: a number of mature stock plants were generated from this seedling through vegetative propagation and were found to be uniform and stable. 'Benmjul' will be commercially propagated by vegetative cuttings from the stock plants. Breeder: Frank A. Benardella, Englishtown, NJ, USA.

Choice of Comparators The seed parent 'Benjen' was chosen because the QP considered the bush characteristics were reasonably similar. Another variety within the Benardella range named 'Benblack' was used. This variety was considered due to its similar characteristics, and because it is the only other red in the Benardella range. 'Meihauzrey' was also considered, and rejected even though the flower colour is similar, all other plant characteristics are very different. The pollen parent 'Benmagic'(ф was rejected due to the difference in flower colour.

Comparative Trial Comparators: 'Benjen', 'Benblack'. Location: Silvan, VIC, Nov 1998-Nov 1999. Conditions: trial conducted in an unheated polyhouse, plants propagated from cutting, rooted cuttings planted into 250mm pots filed with scoria as part of a hydroponic system, pest and disease treatments applied as required. Trial design: twenty pots of four plants per pot for each variety arranged in separate single rows. Measurements: from ten plants per variety at random.

Prior Applications and Sales
First sold in Australia in Sep 1997. No prior overseas sales.

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

Table 37 *Rosa* varieties

	'Benmjul'	***'Benblack'**	***'Benjen'**
YOUNG SHOOT ANTHOCYANIN			
	strong	strong	weak
YOUNG SHOOT (hue of anthocyanin colour)			
	bronze to reddish brown	bronze to reddish brown	reddish-brown
LEAF WIDTH (mm) – terminal leaflet			
mean	26.3	31.15	21.65
std deviation	3.84	3.10	2.87
LSD/sig	2.87	P≤0.01	P≤0.01
LEAF LENGTH (mm) – terminal leaflet from base to tip			
mean	44.75	55.1	38.55
std deviation	5.86	5.99	4.33
LSD/sig	4.29	P≤0.01	P≤0.01
LEAF GREEN COLOUR			
	medium	dark	medium
LEAF GLOSSINESS OF UPPERSIDE			
	weak	strong	weak
LEAFLET (cross-section)			
	flat	slightly concave	flat
TERMINAL LEAFLET (shape of base)			
	rounded	obtuse	rounded
FLOWER SHOOT: number of flowers			
	medium	many	many
FLOWER PEDICLE (number of hairs)			
	medium	many	medium
NUMBER OF PETALS			
mean	26.6	22.4	24.2
std deviation	2.91	3.09	2.35
LSD/sig	3.36	P≤0.01	ns
FLOWER DIAMETER (mm)			
mean	60.5	65.4	70.4
std deviation	5.54	6.24	5.95
LSD/sig	6.181	ns	P≤0.01
FLOWER (side view of upper part)			
	flattened convex	flattened convex	flat
FLOWER (side view of lower part)			
	flat	flattened convex	flat
FLOWER FRAGRANCE			
	medium	weak	strong
SEPAL EXTENSIONS			
	weak	medium	medium
COLOUR OF MIDDLE SECTION INNERSIDE OF PETAL (RHS, 1995)			
	57C	ca. 60A	69B
COLOUR OF MARGINAL SECTION INNERSIDE OF PETAL (RHS, 1995)			
	57A	ca. 60A	69B
PETAL: SIZE OF BASAL SPOT INNERSIDE OF PETAL			
	medium	small	very large
COLOUR OF BASAL SPOT INNERSIDE OF PETAL (RHS, 1995)			
	155A	156C	157B
COLOUR OF MIDDLE SECTION OUTERSIDE OF PETAL (RHS, 1995)			
	57C	ca. 60B	155C

COLOUR OF MARGINAL SECTION OUTERSIDE OF PETAL (RHS, 1995)	57B	ca. 60B	155C
BASAL SPOT OUTERSIDE	present	present	absent
PETAL: SIZE OF BASAL SPOT OUTERSIDE OF PETAL	medium	small	absent
COLOUR OF BASAL SPOT OUTERSIDE OF PETAL (RHS, 1995)	155C	157B	absent
PETAL: REFLEX OF MARGIN	strong	very strong	strong
PETAL: UNDULATION OF MARGIN	weak	weak	absent
OUTER STAMEN (predominant colour of filament)	yellow	yellow	orange
SEED VESSEL SIZE (at petal fall)	small	medium	small

'Lavflush' syn Double Date

Application No: 98/120 Accepted: 7 Jul 1998.
Applicant: **Springwood Consultants Ltd,** Caledon East, Ontario, Canada
Agent: **John Oakes**, Carrum Downs VIC.

Characteristics (Table 38, Figure 6) Plant: miniature rose. Young shoot: anthocyanin absent. Stem: thorns lower profile concave. Leaf: size small, medium green (RHS 137A), medium glossy. Terminal leaflet: concave cross section, no undulation of margin, short length and medium width, obtuse shaped base. Flower pedicel: few glandular hairs. Flower bud: broad ovate. Flower: clusters from 1-2, double, high petal count, small diameter, round view from above, flat upper and flattened convex lower profile, fragrance absent to weak, sepal extensions medium. Petals: very small, inner petal colour RHS 41C, outer petal colour RHS 41D, large basal spot RHS 1C inside and RHS 1D outside, weak reflexing of margin, undulation of margin absent; outer stamen orange/yellow. Seed vessel: absent, sterile. Hip: pitcher shaped. Flowering: very early, almost continuous flowering. (all RHS colour chart numbers refer to 1986 edition.)

Origin and Breeding Controlled Pollination: 'Breezy'/'June Laver' selfed seedling (seed parent) x an unnamed seedling (pollen parent) in a planned breeding program. The seed parent is a proprietary breeding variety developed by the applicant. The pollen parent was characterised by orange flower colour. Hybridisation took place in applicant's property in Caledon East, Ontario, Canada in 1991. Selection criteria: strong apricot colour flowers, compact plant growth, flower number and quick repeating of flowering. Propagation: vegetatively through many generations to confirm uniformity and stability of the selection. Breeder: Keith Laver, Springwood Roses, Caledon East, Ontario, Canada.

Choice of Comparators 'Lavdoll'(ϕ) syn Apricot Bouquet(ϕ), 'Dees Bouquet', 'Red Bouquet' and 'Regal Bouquet' were initially considered as comparators on the basis of similar growth habit. Later, 'Dees Bouquet'(orange-red), 'Red Bouquet' (dark red) and 'Regal Bouquet' (dark pink) were excluded because they have entirely different flower colour. Finally, 'Lavdoll'(ϕ) syn Apricot Bouquet(ϕ) was considered as the most similar variety of common knowledge because of its similarity in flower colour.

Comparative Trials Comparator: 'Lavdoll'(ϕ) syn Apricot Bouquet(ϕ). Location: Tumbi Umbi, NSW, May-Oct 1999. Conditions: plants were grown in 100mm pots in a peat-based mix with 4kg/m^3 slow release fertiliser, pots overhead watered. Trial design: 15 plants arranged in randomised complete blocks. Measurements: from all trial plants.

Prior Applications and Sales

Country	Year	Current Status	Name Applied
Canada	1995	Applied	'Lavflush'

First sold in Canada in Aug 1994. First Australian sale Sep 1997.

Description: **Greg Lowe,** Tumbi Umbi, NSW.

Table 38 *Rosa* varieties

	'Lavflush'	*'Lavdoll'ϕ
PRICKLES	present	absent
TERMINAL LEAFLET LENGTH (mm)		
mean	29.5	22.7
std deviation	2.2	1.5
LSD/sig	3.7	P≤0.01
TERMINAL LEAFLET WIDTH (mm)		
mean	19.1	11.8
std deviation	1.6	0.7
LSD/sig	3.7	P≤0.01
NUMBER OF PETALS		
mean	61.4	29.7
std deviation	2.7	2.9
LSD/sig	15.4	P≤0.01
FLOWER VIEW FROM ABOVE	round	irregularly round
SEPAL LENGTH (mm)		
mean	24.9	20.8
std deviation	1.9	2.0
LSD/sig	2.7	P≤0.01
PETAL COLOUR (RHS, 1986)		
middle zone innerside	41C	38A
marginal zone innerside	41C	38A
basal spot innerside	1C	2A
middle zone outerside	41D	39C
marginal zone outerside	41D	39C
basal spot outerside	1D	2B

'Meihauzrey' syn **Bright Minijet**

Application No: 98/156 Accepted: 18 Sep 1998.
Applicant: **Meilland International,** Le Luc en Provence, France.
Agent: **Australian Roses,** Silvan, VIC.

Characteristics (Table 39, Figure 4) Plant: habit miniature bushy, height short, width narrow. Stem: anthocyanin absent. Prickles: present, lower surface deeply concave, small thorn density absent, large thorn density medium. Leaf: size small, colour at first flowering medium green, upper surface glossiness medium, cross section slightly concave, margin undulation strong. Terminal leaflet: length short (20mm-28mm), width narrow (13mm-20mm), base shape rounded. Flowering shoot: number of flowers many. Flower pedicel: stiff hairs number few. Bud: shape of longitudinal section just before petal separation round. Flower: type double, number of petals very many (59-99), diameter small (26mm-37mm), view from top round, profile; upper flat, lower flattened convex, fragrance absent. Sepal: extensions weak. Petals: size very small, inside surface colour; middle zone RHS 67A, marginal zone RHS 67A, basal spot size medium, basal spot RHS 157A, outer surface colour; middle zone RHS 67C, marginal zone RHS 67A, basal spot small, basal spot RHS 157A, reflex at margin absent, undulation absent. Stamen filament: colouration white. Seed vessel: size at petal fall small. Hip: pitcher shaped. Time of flowering: early (late October). Flowering habit: almost continuous. (Note: all RHS colour chart number refers to 1995 edition.)

Origin and Breeding Controlled Pollination : seed parent 'Meichanso'/'Ruimired' x pollen parent 'Meistondyl' in a planned breeding program. Both parents are proprietary breeding line/variety developed by the applicant. Hybridisation took place in applicant's property in Le Luc en Provence, France in 1991. Selection criteria: uniqueness of colour, well adapted to pot culture, development on own roots. Propagation: a number of mature stock plants were generated from this seedling through vegetative propagation and were found to be uniform and stable. 'Meihauzrey' will be commercially propagated by vegetative cuttings from the stock plants. Breeder: Alain Antoine Meilland.

Choice of Comparators 'Benmjul', 'Benblack', 'Meilipo' and 'Meiselgra' were initially considered as comparators. 'Benmjul' and 'Benblack' were later rejected due to the difference in the colour of the flower, and the plant characteristics, which are significantly different to that of 'Meihauzrey'. 'Meilipo' was discarded due to its different flower shape, petal count, and flower colour. Finally, 'Meiselgra' was chosen due to the similarity in plant characteristics, similar flower shape, and size.

Comparative Trial Comparator: 'Meiselgra'. Location: Silvan, VIC, Nov 1998-Nov 1999. Conditions: trial conducted in an unheated polyhouse, plants propagated from cutting, rooted cuttings planted into 250mm pots filed with scoria as part of a hydroponic system, pest and disease treatments applied as required. Trial design: ten pots of four plants per pot of 'Meihauzrey' and eight pots of four plants per pot of 'Meiselgra' in separate single rows. Measurements: from ten plants per variety at random.

Prior Applications and Sales
First sold in Australia in Sep 1997. No prior overseas sales.

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

Table 39 *Rosa* varieties

	'Meihauzrey'	***'Meiselgra'**
YOUNG SHOOT ANTHOCYANIN		
	absent	weak
LEAF LENGTH (mm) – terminal leaflet from base to tip		
mean	24.35	31.70
std deviation	1.98	4.00
LSD/sig	2.53	P≤0.01
LEAFLET (cross-section)		
	slightly concave	flat
LEAFLET: UNDULATION OF MARGIN		
	strong	medium
TERMINAL LEAFLET (length of blade)		
	short	medium
TERMINAL LEAFLET (shape of base)		
	rounded	obtuse
NUMBER OF PETALS		
mean	80.60	47.30
std deviation	10.38	8.55
LSD/sig	9.87	P≤0.01
FLOWER DIAMETER (mm)		
mean	31.70	33.90
std deviation	2.90	1.77
LSD/sig	1.85	P≤0.01
FLOWER (side view of upper part)		
	flat	flattened convex
FLOWER (side view of lower part)		
	flattened convex	concave
FLOWER FRAGRANCE		
	absent	weak
COLOUR OF MIDDLE SECTION INNERSIDE OF PETAL (RHS, 1995)		
	67A	57B
COLOUR OF MARGINAL SECTION INNERSIDE OF PETAL (RHS, 1995)		
	67A	67A
PETAL: SIZE OF BASAL SPOT INNERSIDE OF PETAL		
	medium	large
COLOUR OF BASAL SPOT INNERSIDE OF PETAL (RHS, 1995)		
	157A	155A
COLOUR OF MIDDLE SECTION OUTERSIDE OF PETAL (RHS, 1995)		
	67C	57D

COLOUR OF MARGINAL SECTION OUTERSIDE OF PETAL (RHS, 1995)	67A	57D
PETAL: SIZE OF BASAL SPOT OUTERSIDE OF PETAL	small	large
COLOUR OF BASAL SPOT OUTERSIDE OF PETAL (RHS, 1995)	157A	155A
OUTER STAMEN (predominant colour of filament)	white	yellow

'Meihoto' syn Sammi Minijet

Application No: 98/157 Accepted: 18 Sep 1998.
Applicant: **Meilland International,** Le Luc en Provence, France.
Agent: **Australian Roses,** Silvan, VIC.

Characteristics (Table 40, Figure 5) Plant: habit miniature bushy, height short, width narrow. Stem: anthocyanin weak, colouration reddish brown. Prickles: present, lower surface deeply concave, small thorn density absent, large thorn density medium. Leaf: size small, colour at first flowering medium green, upper surface glossiness medium, cross section slightly concave, margin undulation strong. Terminal leaflet: length medium (27mm-34mm), width narrow (16mm-22mm), base shape rounded. Flowering shoot: number of flowers many. Flower pedicel: stiff hairs number few. Bud: shape of longitudinal section just before petal separation round. Flower: type double, number of petals very many (74-128), diameter small (30mm-37mm), view from top round, profile; upper flattened convex, lower flat, fragrance absent. Sepal: extensions absent. Petals: size very small, inside surface colour; middle zone RHS 62A, marginal zone RHS 62A, basal spot size small, basal spot RHS 156B, outer surface colour; middle zone RHS 62B, marginal zone RHS 62B, basal spot small, basal spot RHS 156D, reflex at margin absent, undulation absent. Stamen filament: colouration white. Seed vessel: size at petal fall medium. Hip: pitcher shaped. Time of flowering: early (late October). Flowering habit: almost continuous. (Note: all RHS colour chart number refers to 1995 edition.)

Origin and Breeding Controlled Pollination : seed parent 'Meichanso'/'Ruimired' x pollen parent 'Meistondyl' in a planned breeding program. Both parents are proprietary breeding line/variety developed by the applicant. Hybridisation took place in applicant's property in Le Luc en Provence, France in 1991. Selection criteria: uniqueness of colour, well adapted to pot culture, development on own roots. Propagation: a number of mature stock plants were generated from this seedling through vegetative propagation and were found to be uniform and stable. 'Meihoto' will be commercially propagated by vegetative cuttings from the stock plants. Breeder: Alain Antoine Meilland.

Choice of Comparators 'Hartland', 'Meilarac'(D) and 'Meiselgra' were initially considered as comparators. 'Hartland' was later rejected due to the difference in the colour of the flower, petal count, and the plant characteristics are much larger (60cm in height as opposed to 30cm in height of 'Meihoto'). 'Meilarac'(D) was discarded due to its different bush and buff flower colour. Finally, 'Meiselgra' was chosen due to the similarity in plant characteristics, similar flower shape, and size.

Comparative Trial Comparator: 'Meiselgra'. Location: Silvan, VIC, Nov 1998-Nov 1999. Conditions: trial conducted in an unheated polyhouse, plants propagated from cutting, rooted cuttings planted into 250mm pots filed with scoria as part of a hydroponic system, pest and disease treatments applied as required. Trial design: ten pots of four plants per pot of 'Meihoto' and eight pots of four plants per pot of 'Meiselgra' in separate single rows. Measurements: from ten plants per variety at random.

Prior Applications and Sales
First sold in Australia in Sep 1997. No prior overseas sales.

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

Table 40 *Rosa* varieties

	'Meihoto'	*'Meiselgra'
LEAF WIDTH (mm) – terminal leaflet		
mean	18.4	15.3
std deviation	1.54	1.48
LSD/sig	1.16	P≤0.01
LEAFLET (cross-section)	slightly concave	flat
LEAFLET: UNDULATION OF MARGIN	strong	medium
TERMINAL LEAFLET (length of blade)	short	medium
TERMINAL LEAFLET (shape of base)	rounded	obtuse
NUMBER OF PETALS		
mean	95.50	47.30
std deviation	17.72	8.55
LSD/sig	16.36	P≤0.01
FLOWER (side view of lower part)	flat	concave
FLOWER FRAGRANCE	absent	weak
COLOUR OF MIDDLE SECTION INNERSIDE OF PETAL (RHS, 1995)	62A	57B
COLOUR OF MARGINAL SECTION INNERSIDE OF PETAL (RHS, 1995)	62A	67A
PETAL: SIZE OF BASAL SPOT INNERSIDE OF PETAL	small	medium
COLOUR OF BASAL SPOT INNERSIDE OF PETAL (RHS, 1995)	156B	155A

DESCRIPTIONS

COLOUR OF MIDDLE SECTION OUTERSIDE OF PETAL (RHS, 1995)	62B	57D
COLOUR OF MARGINAL SECTION OUTERSIDE OF PETAL (RHS, 1995)	62B	57D
PETAL: SIZE OF BASAL SPOT OUTERSIDE OF PETAL	small	large
COLOUR OF BASAL SPOT OUTERSIDE OF PETAL (RHS, 1995)	156D	155A
OUTER STAMEN (predominant colour of filament)	white	yellow
SEED VESSEL SIZE (at petal fall)	medium	small

STRAWBERRY
Fragaria x *ananassa*

'Maroochy Blaze'

Application No: 97/257 Accepted: 7 Oct 1997.
Applicant: **The State of Queensland through its Department of Primary Industries,** Brisbane, QLD.

Characteristics (Table 41, Figure 31) Plant: habit globose, density medium, vigour medium, medium-early maturing. Leaf: colour upper-side medium green (RHS 147A, 1995), shape in transverse cross-section strongly to slightly concave, blistering absent or very weak, glossiness weak to medium. Terminal Leaflet: longer than broad (average ratio 1.09), shape of base obtuse, shape of incisions on margin crenate. Petiole: attitude of hairs strongly outwards. Stipules: anthocyanin absent or very weak. Stolons: number many. Inflorescence: position relative to foliage level with. Primary Flower: diameter large (average 36mm) size of calyx relative to corolla same size to slightly larger. Petal: relative position of petals overlapping, length/width ratio as long as broad to broader than long. Fruit: ratio of length to width slightly longer than broad, size large (average 27g), predominant shape wedged to conical or bi-conical, band without achenes narrow to medium, unevenness of surface absent to very weak, external colour dark red (RHS 53A, 1995) and even to slightly uneven, glossiness strong, insertion of achenes below surface, insertion of calyx above fruit, attitude of calyx segments spreading, size of calyx in relation to fruit diameter same size, adherence of calyx to fruit strong, firmness firm, colour of flesh dark red (RHS 44A, 1995), hollow centre weakly expressed, distribution of red colour of flesh marginal and central. Time of flowering and ripening medium-early. Type of bearing partially remontant.

Origin and Breeding Controlled pollination: seed parent 'Chandler' x pollen parent 'Redlands Hope'. The seed parent was characterised by terminal leaflets as long as broad, fruit much longer than broad and soft. The pollen parent was characterised by fruit external colour orange red and internal colour light red. Hybridisation took place in Cleveland, QLD, Australia in 1992. From this cross, seedling number 93-229 was chosen from among 5000 seedlings at Redlands Research Station, Cleveland in 1993 using the following characteristics and advanced through plot selection trials in 1994, 95 and 96. Selection criteria: yield, yield distribution, earliness, fruit size, external and internal colour, resistance to bruising and abrasion, shelf-life, flavour, attractiveness of fruit, tolerance to disease, ease of harvest, truss type, runner production. Propagation: by runners since first selection. A number of mature stock plants were generated from a virus indexed plant from the evaluated clone and also through tissue culture and were found to be uniform and stable. 'Maroochy Blaze' will be commercially propagated by runners and sometimes following tissue culture from virus indexed stock plants. Breeder: M. E. Herrington, S. Prytz, and J. A. Moisander, Queensland Horticulture Institute, Department of Primary Industries, Nambour and Cleveland, QLD, Australia.

Choice of Comparators Most of the strawberry varieties of common knowledge at the time of the application were excluded on the basis of their flat or convex leaf shape in cross section, inflorescence position above foliage, size of calyx relative to corolla, high length width ratio of fruit, or fruit firmness. The pollen parent 'Redlands Hope' and the seed parent 'Chandler' were included in the comparative trial as the most similar varieties of common knowledge.

Comparative Trial Comparators: 'Redlands Hope', 'Chandler'. Location: Maroochy Research Station, Nambour, QLD (latitude 26º37′ South, longitude 152º57′ East, elevation 29m), Mar-Apr to Sep 1999. Conditions: trial conducted in a fumigated field, runners from commercial sources ('Chandler'), field station in QLD runner growing district (Stanthorpe), or Maroochy Res Stn Nambour ('Redlands Hope'), reflective polythene mulch, double rows on beds (40cm inter-row, 35cm intra-row and 140cm between bed centres), trickle irrigated and fertilised, pest and disease treatments applied as required. Trial design: randomised complete block design with 4 blocks and 12 plants per plot, significance tested using Duncan's Multiple Range. Measurements: from twenty plants or fruit as five individual plants or harvested fruit sampled per cultivar per block.

Prior Applications and Sales
No prior applications. First Australian sale May 1999. First overseas sale nil.

Description: **M. E. Herrington and S. Prytz, Maroochy Research Station,** Nambour and **J. Moisander**, **Redlands Research Station,** Cleveland, QLD.

'Maroochy Flame'

Application No: 97/256 Accepted: 7 Oct 1997.
Applicant: **The State of Queensland through its Department of Primary Industries,** Brisbane, QLD.

Characteristics (Table 41, Figure 32) Plant: habit globose, density medium, vigour medium, early maturing. Leaf: colour upper-side light green (RHS 147B, 1995), shape in transverse cross-section slightly concave to flat, blistering absent or very weak, glossiness weak. Terminal Leaflet: much longer than broad (average ratio 1.2), shape of base very slightly acute, shape of incisions on margin crenate. Petiole: attitude of hairs strongly outwards. Stipules:

anthocyanin absent or very weak. Stolon: number many. Inflorescence: position relative to foliage beneath. Primary Flower: diameter medium (average 31 mm) size of calyx relative to corolla same size. Petal: relative position of petals overlapping, length/width ratio as long as broad. Fruit: ratio of length to width much longer than broad, size medium (average 18g), predominant shape wedged to conical or bi-conical, band without achenes medium to narrow, unevenness of surface absent to very weak, external colour red (RHS 45A, 1995) and slightly uneven, glossiness medium, insertion of achenes below surface, insertion of calyx above fruit, attitude of calyx segments spreading, size of calyx in relation to fruit diameter same size to very slightly larger, adherence of calyx to fruit strong, firmness firm, colour of flesh medium red (RHS 43A, 1995), hollow centre absent or very weakly expressed, distribution of red colour of flesh marginal and central. Time of flowering and ripening early. Type of bearing partially remontant.

Origin and Breeding Controlled pollination: seed parent 'Chandler' x pollen parent 'Kabarla'. The seed parent was characterised by strongly to slightly concave leaves, terminal leaflets as long as broad, strong glossiness of fruit and late flowering. The pollen parent was characterised by flat plant habit and petals slightly broader than long. Hybridisation took place in Cleveland, QLD, Australia in 1993. From this cross, seedling number 94-206 was chosen from among 5000 seedlings at Maroochy Research Station, Nambour in 1994 using the following characteristics and advanced through plot selection trials in 1995, 96, and 97. Selection criteria: yield, yield distribution, earliness, fruit size, external and internal colour, resistance to bruising and abrasion, shelf-life, flavour, attractiveness of fruit, tolerance to disease, ease of harvest, truss type, runner production. Propagation: by runners since first selection. A number of mature stock plants were generated from a virus indexed plant of the evaluated clone and also through tissue culture and were found to be uniform and stable. 'Maroochy Flame' will be commercially propagated by runners and sometimes following tissue culture from virus indexed stock plants. Breeder: M. E. Herrington, S. Prytz, and J. A. Moisander, Queensland Horticulture Institute, Department of Primary Industries, Nambour and Cleveland, QLD, Australia.

Choice of Comparators Most of the strawberry varieties of common knowledge at the time of the application were excluded on the basis of their high chill requirement, band without achenes, truss type or susceptibility to fruit cracking due to rain. The pollen parent 'Kabarla' and the seed parent 'Chandler' were included in the comparative trial as the most similar varieties of common knowledge. Other more remote potential comparators included 'Sweet Charlie' and 'Mindarie' but both of these were excluded because they are susceptible to fruit cracking due to rain.

Comparative Trial Comparators: 'Kabarla', 'Chandler'. Location: Maroochy Research Station, Nambour, QLD (latitude 26º37′ South, longitude 152º57′ East, elevation 29m), Mar-Apr to Sep 1999. Conditions: trial conducted in a fumigated field, runners from commercial sources (comparators) or field station in QLD runner growing district (Stanthorpe), reflective polythene mulch, double rows on beds (40cm inter-row, 35cm intra-row and 140cm between bed centres), trickle irrigated and fertilised, pest and disease treatments applied as required. Trial design: randomised complete block design with 4 blocks and 12 plants per plot, significance tested using Duncan's Multiple Range. Measurements: from twenty plants or fruit as five individual plants or harvested fruit sampled per cultivar per block.

Prior Applications and Sales
No prior applications. First Australian sale May 1999. First overseas sale nil.

Description: **M. E. Herrington and S. Prytz, Maroochy Research Station,** Nambour and **J. Moisander, Redlands Research Station,** Cleveland, QLD.

'Maroochy Jewel'

Application No: 99/025 Accepted: 28 Jan 1999.
Applicant: **The State of Queensland through its Department of Primary Industries,** Brisbane, QLD.

Characteristics (Table 41, Figure 33) Plant: habit flat, density medium-open, vigour medium to weak, early maturing. Leaf: colour upper-side medium green (RHS 147A, 1995), shape in transverse cross-section slightly concave, blistering absent or very weak, glossiness weak. Terminal Leaflet: much longer than broad (average ratio 1.24), shape of base obtuse, shape of incisions on margin crenate. Petiole: attitude of hairs strongly outwards. Stipules: anthocyanin absent or very weak. Stolon: numbers many. Inflorescence: position relative to foliage level with. Primary Flower: diameter large (average 34mm) size of calyx relative to corolla larger. Petal: relative position of petals overlapping, length/width ratio as long as broad. Fruit: ratio of length to width much longer than broad, size medium (average 20g), predominant shape conical or bi-conical some wedge, band without achenes medium, unevenness of surface absent to very weak, external colour red (RHS 46A, 1995) and uneven to slightly uneven, glossiness medium, insertion of achenes below surface, insertion of calyx above fruit, attitude of calyx segments clasping to spreading, size of calyx in relation to fruit diameter slightly larger, adherence of calyx to fruit very strong, firmness firm, colour of flesh medium red (RHS 44A, 1995), hollow centre absent or very weakly expressed, distribution of red colour of flesh marginal and central. Time of flowering and ripening early. Type of bearing partially remontant.

Origin and Breeding Controlled pollination: seed parent 'Chandler' x pollen parent 'Kabarla'. The seed parent was characterised by globose plant habit, terminal leaflets as long as broad, late flowering and soft fruit. The pollen parent was characterised by medium flower size, calyx spreading to reflexed and medium adherence of calyx. Hybridisation took place in Cleveland, QLD, Australia in 1993. From this cross, seedling number 94-159 was chosen from among 5000 seedlings at Maroochy Research Station, Nambour in 1994 using the following characteristics and advanced through plot selection trials in 1995, 96, and 97. Selection criteria: yield, yield distribution, earliness, fruit size, external and internal colour, resistance to bruising and abrasion, shelf-life, flavour, attractiveness of fruit, tolerance to disease, ease of harvest, truss type, runner production. Propagation: by runners since first selection. A number

mature stock plants were generated from a virus indexed plant from the evaluated clone and also through tissue culture and were found to be uniform and stable. 'Maroochy Jewel' will be commercially propagated by runners and sometimes following tissue culture from virus indexed stock plants. Breeder: M. E. Herrington, S. Prytz, and J. A. Moisander, Queensland Horticulture Institute, Department of Primary Industries, Nambour and Cleveland, QLD, Australia.

Choice of Comparators Most of the strawberry varieties of common knowledge at the time of the application were excluded on the basis of their high chill requirement, upright plant habit, truss type, fruit shape or susceptibility to fruit cracking due to rain. 'Maroochy Starfire', the most similar variety of common knowledge, and the parents 'Kabarla' and 'Chandler' were included in the comparative trial.

Comparative Trial Comparators: 'Maroochy Starfire', 'Kabarla', 'Chandler'. Location: Maroochy Research Station, Nambour, QLD (latitude 26º37′ South, longitude 152º57′ East, elevation 29m), Mar-Apr to Sep 1999. Conditions: trial conducted in a fumigated field, runners from commercial sources (comparators) or field station in QLD runner growing district (Stanthorpe), reflective polythene mulch, double rows on beds (40cm inter-row, 35cm intra-row and 140cm between bed centres), trickle irrigated and fertilised, pest and disease treatments applied as required. Trial design: randomised complete block design with 4 blocks and 12 plants per plot, significance tested using Duncan's Multiple Range. Measurements: from twenty plants or fruit as five individual plants or harvested fruit sampled per cultivar per block.

Prior Applications and Sales
No prior applications. First Australian sale May 1999. First overseas sale nil.

Description: **M. E. Herrington and S. Prytz, Maroochy Research Station,** Nambour and **J. Moisander, Redlands Research Station,** Cleveland, QLD.

'Maroochy Starfire'

Application No: 97/255 Accepted: 7 Oct 1997.
Applicant: **The State of Queensland through its Department of Primary Industries,** Brisbane, QLD.

Characteristics (Table 41, Figure 34) Plant: habit flat-globose, density medium, vigour medium-strong, early maturing. Leaf: colour upper-side medium green (RHS 147A, 1995), shape in transverse cross-section strongly to slightly concave, blistering absent or very weak, glossiness weak. Terminal Leaflet: longer than broad (average ratio 1.07), shape of base obtuse, shape of incisions on margin crenate. Petiole: attitude of hairs strongly outwards. Stipules: anthocyanin absent or very weak. Stolons: number many. Inflorescence: position relative to foliage beneath. Primary Flower: diameter medium (average 34mm) size of calyx relative to corolla same size. Petal: relative position of petals overlapping, length/width ratio as long as broad. Fruit: ratio of length to width much longer than broad, size medium (average 15g), predominant shape bi-conical or conical to wedged, band without achenes medium, unevenness of surface absent to very weak, external colour dark red (RHS 46A, 1995) and slightly uneven, glossiness strong, insertion of achenes below surface, insertion of calyx above fruit, attitude of calyx segments reflexed to spreading, size of calyx in relation to fruit diameter same size to slightly larger, adherence of calyx to fruit medium strong, firmness firm, colour of flesh dark red (RHS 44A, 1995), hollow centre absent or very weakly expressed, distribution of red colour of flesh marginal and central. Time of flowering and ripening early. Type of bearing partially remontant.

Origin and Breeding Controlled pollination: seed parent 'Chandler' x pollen parent 'Kabarla'. The seed parent was characterised by terminal leaflets as long as broad, late flowering and soft fruit. The pollen parent was characterised by leaf cross section flat to slightly concave, terminal leaflets much longer than broad and fruit slightly longer than broad. Hybridisation took place in Cleveland, QLD, Australia in 1992. From this cross, seedling number 93-486 was chosen from among 5000 seedlings at Redlands Research Station, Cleveland in 1993 using the following characteristics and advanced through plot selection trials at Nambour in 1994, 1995, 96, and 97. Selection criteria: yield, yield distribution, earliness, fruit size, external and internal colour, resistance to bruising and abrasion, shelf-life, flavour, attractiveness of fruit, tolerance to disease, ease of harvest, truss type, runner production. Propagation: by runners since first selection. A number mature stock plants were generated from a virus indexed plant from the evaluated clone and also through tissue culture and were found to be uniform and stable. 'Maroochy Starfire' will be commercially propagated by runners and sometimes following tissue culture from virus indexed stock plants. Breeder: M. E. Herrington, S. Prytz, and J. A. Moisander, Queensland Horticulture Institute, Department of Primary Industries, Nambour and Cleveland, QLD, Australia.

Choice of Comparators Most of the strawberry varieties of common knowledge at the time of the application were excluded on the basis of their high chill requirement, upright plant habit, truss type or susceptibility to fruit cracking due to rain. The seed parent 'Chandler' and the pollen parent 'Kabarla' were included in the comparative trial as the most similar varieties of common knowledge. Other more remote potential comparators included 'Sweet Charlie' and 'Mindarie' but both of these were excluded because they are susceptible to fruit cracking due to rain.

Comparative Trial Comparators: 'Chandler', 'Kabarla'. Location: Maroochy Research Station, Nambour, QLD (latitude 26º37′ South, longitude 152º57′ East, elevation 29m), Mar-Apr to Sep 1999. Conditions: trial conducted in a fumigated field, runners from commercial sources (comparators) or field station in QLD runner growing district (Stanthorpe), reflective polythene mulch, double rows on beds (40cm inter-row, 35cm intra-row and 140cm between bed centres), trickle irrigated and fertilised, pest and disease treatments applied as required. Trial design: randomised complete block design with 4 blocks and 12 plants per plot, significance tested using Duncan's Multiple Range. Measurements: from twenty plants or fruit as five individual plants or harvested fruit sampled per cultivar per block.

Prior Applications and Sales
No prior applications. First Australian sale May 1999. First overseas sale nil.

Description: **M. E. Herrington and S. Prytz, Maroochy Research Station,** Nambour and **J. Moisander, Redlands Research Station,** Cleveland, QLD.

'Maroochy Sundew'

Application No: 99/026 Accepted: 28 Jan 1999.
Applicant: **The State of Queensland through its Department of Primary Industries,** Brisbane, QLD.

Characteristics (Table 41, Figure 34) Plant: habit flat globose, density dense, vigour strong, mid maturing. Leaf: colour upper-side medium green (RHS 146A, 1995), shape in transverse cross-section slightly concave, blistering absent or very weak, glossiness weak. Terminal Leaflet: longer than broad (average ratio 1.06), shape of base obtuse, shape of incisions on margin crenate. Petiole: attitude of hairs strongly outwards. Stipules: anthocyanin absent or very weak. Stolons: numbers many. Inflorescence: position relative to foliage beneath. Primary Flower: diameter medium (average 33 mm) size of calyx relative to corolla smaller. Petal: relative position of petals overlapping, length/width ratio slightly to much broader than long. Fruit: ratio of length to width much longer than broad, size medium (average 19g), predominant shape bi-conical to wedged and some conical, band without achenes medium, unevenness of surface absent to very weak, external colour red (RHS 45A, 1995) and slightly uneven, glossiness medium, insertion of achenes below surface, insertion of calyx above fruit, attitude of calyx segments spreading, size of calyx in relation to fruit diameter same size, adherence of calyx to fruit very strong, firmness firm, colour of flesh medium red (RHS 44A, 1995), hollow centre absent or very weakly expressed, distribution of red colour of flesh marginal and central. Time of flowering and ripening medium. Type of bearing partially remontant.

Origin and Breeding Controlled pollination: seed parent 'Kabarla' x pollen parent 'Chandler'. The seed parent was characterised by terminal leaflet much longer than broad, medium flower size (28 mm) and fruit slightly longer than broad. The pollen parent was characterised by terminal leaflet as long as broad and soft fruit. Hybridisation took place in Cleveland, QLD, Australia in 1993. From this cross, seedling number 94-059 was chosen from among 5000 seedlings at Maroochy Research Station, Nambour in 1994 using the following characteristics and advanced through plot selection trials in 1995, 96, and 97. Selection criteria: yield, yield distribution, earliness, fruit size, external and internal colour, resistance to bruising and abrasion, shelf-life, flavour, attractiveness of fruit, tolerance to disease, ease of harvest, truss type, runner production. Propagation: by runners since first selection. A number of mature stock plants were generated from a virus indexed plant from the evaluated clone and also through tissue culture and were found to be uniform and stable. 'Maroochy Sundew' will be commercially propagated by runners and sometimes following tissue culture from virus indexed stock plants. Breeder: M. E. Herrington, S. Prytz, and J. A. Moisander, Queensland Horticulture Institute, Department of Primary Industries, Nambour and Cleveland, QLD, Australia.

Choice of Comparators. Most of the strawberry varieties of common knowledge at the time of the application were excluded on the basis of their high chill requirement, upright or flat plant habit, truss type, fruit shape or susceptibility to fruit cracking due to rain. 'Maroochy Starfire', the most similar variety of common knowledge, and the parents 'Kabarla' and 'Chandler' were included in the comparative trial.

Comparative Trial Comparators: 'Maroochy Starfire', 'Kabarla', 'Chandler'. Location: Maroochy Research Station, Nambour, QLD (latitude 26º37′ South, longitude 152º57′ East, elevation 29m), Mar-Apr to Sep 1999. Conditions: trial conducted in a fumigated field, runners from commercial sources (comparators) or field station in QLD runner growing district (Stanthorpe), reflective polythene mulch, double rows on beds (40cm inter-row, 35 cm intra-row and 140cm between bed centres), trickle irrigated and fertilised, pest and disease treatments applied as required. Trial design: randomised complete block design with 4 blocks and 12 plants per plot, significance tested using Duncan's Multiple Range. Measurements: from twenty plants or fruit as five individual plants or harvested fruit sampled per cultivar per block.

Prior Applications and Sales
No prior applications. First Australian sale May 1999. First overseas sale nil.

Description: **M. E. Herrington and S. Prytz, Maroochy Research Station,** Nambour and **J. Moisander, Redlands Research Station,** Cleveland, QLD.

'Sweet Charlie'

Application No: 95/294 Accepted: 18 Dec 1995.
Applicant: **Florida Foundation Seed Producers Inc,** Greenwood, Florida, USA.
Agent: **The State of Queensland through its Department of Primary Industries,** Brisbane, QLD.

Characteristics (Table 41, Figure 35) Plant: habit globose, density open to medium, vigour weak to medium. Leaf: colour upper-side dark green (RHS 147A, 1995), shape in transverse cross-section strongly concave, blistering absent or very weak, glossiness medium weak. Terminal Leaflet: longer than broad (average ratio 1.06), shape of base obtuse, shape of incisions on margin crenate. Petiole: attitude of hairs strongly outwards. Stipules: anthocyanin absent or very weak. Stolons: number many. Inflorescence: position relative to foliage level with to slightly beneath. Primary Flower: diameter medium (average 32 mm), size of calyx relative to corolla same size. Petal: relative position of petals overlapping, length/width ratio slightly broader than long. Fruit: ratio of length to width slightly longer than broad, size medium (average 18g), predominant shape conical, band without achenes narrow, unevenness of surface absent to very weak, external colour red (RHS 45A, 1995) and slightly uneven, glossiness strong, insertion of achenes level with surface, insertion of calyx above fruit, attitude of calyx segments spreading, size of calyx in relation to fruit diameter slightly larger, adherence of calyx to fruit weak, firmness medium firm, colour of flesh medium red (RHS 43A, 1995), hollow centre weakly expressed, distribution of red colour of flesh marginal and central. Time of flowering and ripening early. Type of bearing partially remontant.

Origin and Breeding Controlled pollination: seed parent FL 80-456 x pollen parent 'Pajaro'. The seed parent was characterised by anthracnose (*Colletotrichum* spp.) resistance. The pollen parent was characterised by very strong adherence of calyx, medium to soft fruit and medium to late flowering. The seeds resulting from the controlled hybridisation in Dover, Florida, USA in 1985 were germinated in a greenhouse and the resulting seedlings were planted and allowed to produce daughter plants (by asexual propagation). These plants later fruited and one pair, FL 85-4925 was selected from its outstanding fruit quality and high yield at Gulf Coast Research and Education Center, Dover in 1986. Propagation: by runners since first selection. Entry to Australia was by tissue culture from stock plants, subsequent heat therapy and re tissue cultured through quarantine. A number of mature stock plants were generated from virus indexed plants and also through tissue culture and were found to be uniform and stable. 'Sweet Charlie' will be commercially propagated by runners and sometimes following tissue culture from virus indexed stock plants. Breeder: C. M. Howard, University of Florida, Gulf Coast Research and Education Center, Dover, USA.

Choice of Comparators Most of the strawberry varieties of common knowledge at the time of the application were excluded on the basis of their high chill requirement, inflorescence position relative to foliage, external or internal colour of fruit, adherence of calyx, or pose of calyx segments. 'Redlands Joy' and 'Kabarla' the most similar varieties of common knowledge, and the pollen parent 'Pajaro' were included in the comparative trial. The seed parent 'FL 80-456' was not included in the trial as it was a non-commercial US breeding line no longer available.

Comparative Trial Comparators: 'Pajaro', 'Redlands Joy', 'Kabarla'. Location: Maroochy Research Station, Nambour, QLD (latitude 26º37′ South, longitude 152º57′ East, elevation 29m), Mar-Apr to Sep 1999. Conditions: trial conducted in a fumigated field, runners from commercial sources (comparators) or field station in QLD runner growing district (Stanthorpe), 'Sweet Charlie' plants were established in pots for 4 weeks before field planting, reflective polythene mulch, double rows on beds (40cm inter-row, 35cm intra-row and 140cm between bed centres), trickle irrigated and fertilised, pest and disease treatments applied as required. Trial design: randomised complete block design with 4 blocks and 12 plants per plot, significance tested using Duncan's Multiple Range. Measurements: from twenty plants or fruit as five individual plants or harvested fruit sampled per cultivar per block.

Prior Applications and Sales

Country	Year	Current Status	Name Applied
Argentina	1993	Granted	'Sweet Charlie'
Canada	1994	Applied	'Sweet Charlie'
Germany	1994	Granted	'Sweet Charlie'
Spain	1994	Applied	'Sweet Charlie'
France	1993	Granted	'Sweet Charlie'
Italy	1993	Applied	'Sweet Charlie'
Portugal	1993	Granted	'Sweet Charlie'
European Union	1997	Granted	'Sweet Charlie'
USA	1992	Granted	'Sweet Charlie'

First Australian sale Nil. First overseas sale: USA, 17 Sept 1992.

Description: **M. E. Herrington and S. Prytz, Maroochy Research Station,** Nambour QLD.

Table 41 *Fragaria* varieties

	'Maroochy Sundew'	'Maroochy Jewel'	'Maroochy Blaze'	'Maroochy Flame'	'Maroochy Starfire'	'Sweet Charlie'	*'Redlands Joy'	*'Redlands Hope'	*'Kabarla'	*'Chandler'	*'Pajaro'
PLANT: HEIGHT (cm, at maximum height) [LSR, r2 = 2.1, r11= 2.4]											
mean	15 a	12 bc	13 abc	15 a	13 abc	12 c	14 ab	15 a	13 abc	13 abc	11 c
std deviation	1.6	1.9	1.1	1.7	1.4	1.1	1.6	1.5	1.3	1.2	1.1
PLANT: WIDTH (cm, at maximum width) [LSR, r2 = 3.8, r11= 4.4]											
mean	40 a	36 bc	35 c	37 abc	36 bc	28 d	40 ab	36 bc	40 ab	29 d	27 d
std deviation	4.1	3.3	4.4	2.8	1.9	2.6	2.7	2.9	2.5	1.8	2.8
PLANT: RATIO HEIGHT/WIDTH (maximum height and width) [LSR, r2 = 0.06, r11= 0.07]											
mean	0.36 abcd	0.33 cd	0.38 abc	0.39 abc	0.37 abcd	0.42 ab	0.36 bcd	0.41 ab	0.31 d	0.43 a	0.42 ab
std deviation	0.04	0.035	0.052	0.045	0.048	0.047	0.045	0.053	0.034	0.051	0.028
PLANT: HABIT	flat globose	flat	globose	globose	flat globose	globose	globose to flat globose	globose	flat	globose	globose
PLANT: DENSITY	dense	medium to open	medium	medium	medium to dense	open to medium	open	medium to open	medium	medium	open to medium
PLANT: VIGOUR	strong	medium to weak	medium	medium	medium to strong	weak to medium	medium	medium	medium to weak	medium	weak
LEAF: SHAPE IN CROSS	slightly concave	slightly concave	strongly to slightly concave	slightly concave to flat	strongly to slightly concave	strongly concave	flat	slightly concave	flat to slightly concave	strongly to slightly concave	strongly to slightly concave

Table 41 continued

TERMINAL LEAFLET: LENGTH (mm) [LSR, r2 = 9.2, r11= 10.7]											
mean	67 ab	65 abc	60 abc	69 a	64 abc	57 bc	60 abc	67abc	64 abc	62 abc	57 c
std deviation	11.2	7.6	5.8	7.7	7.6	6.8	6.4	5.1	13.1	4.3	4.2
TERMINAL LEAFLET: WIDTH (mm) [LSR, r2 = 7.6, r11= 8.8]											
mean	64 ab	53 c	55 bc	58 abc	60 abc	54 c	58 abc	58 abc	54 c	65 a	57 abc
std deviation	8.7	5.5	5.1	7	6.8	6.1	5.8	4.2	9.2	5.2	3.7
TERMINAL LEAFLET: RATIO LENGTH/WIDTH (maximum length and width) [LSR, r2 = 0.085, r11= 0.099]											
mean	1.06 c	1.24 a	1.09 bc	1.2 a	1.07 bc	1.06 c	1.03 cd	1.15 ab	1.19 a	0.96 d	1.00 cd
std deviation	0.073	0.1	0.095	0.113	0.043	0.053	0.06	0.094	0.112	0.053	0.056
TERMINAL LEAFLET: SHAPE OF BASE											
	obtuse	obtuse	obtuse	very slightly acute	obtuse	obtuse	obtuse	obtuse	obtuse	obtuse	obtuse
TERMINAL LEAFLET: SHAPE OF INCISIONS OF MARGIN											
	crenate	crenate	crenate	crenate	crenate	crenate	crenate	crenate	crenate	crenate	crenate
STOLONS: NUMBER PER PLANT (number of stolons produced during summer/autumn -from previous observations)											
	many	many	many	many	many	many	medium	many	many	many	medium
INFLORECENCE POSITION RELATIVE TO FOLIAGE											
	beneath	level with	level with	beneath	beneath	level with to slightly beneath	level with to slightly beneath	level with to slightly above	level to slightly beneath	beneath to level with	level with
FLOWER: DIAMETER (mm) [LSR, r2 = 3.4, r11= 3.9]											
mean	33 ab	34 ab	36 a	31 bc	34 ab	32 ab	33 ab	34 ab	28 c	36 a	33 ab
std deviation	6	3.7	4.2	4.6	4.0	4.0	3.4	3.3	3.8	2.9	3.4
FLOWER: SIZE OF CALYX RELATIVE TO COROLLA											
	smaller	larger	same size to slightly larger	same size	same size	same size	smaller	same size to slightly larger	same size	same size	larger
FLOWER:PRIMARY: RELATIVE POSITION OF PETALS											
	over-lapping	over-lapping	over-lapping	over-lapping	over-lapping	over-lapping	over-lapping	over-lapping	over-lapping	over-lapping	over-lapping
FLOWER:PETAL:LENGTH/WIDTH RATIO											
	slightly to much longer than broad	as long as broad	as long as broad to broader than long	as long as broad	as long as broad	slightly broader than long	broader than long	as long as broad	slightly broader than long	broader than long	as long as broad
FRUIT: LENGTH (mm) [LSR, r2 = 5.3, r11= 6.2]											
mean	42 ab	46 ab	46 ab	47 ab	47 a	46 ab	43 ab	48 a	41 b	47 a	43 ab
std deviation	7.4	4.3	7.6	3.1	3.9	4.0	4.8	3.7	5.8	5	3.5
FRUIT: WIDTH (mm) [LSR, r2 = 4.5, r11= 5.2]											
mean	33 d	37 bcd	42 ab	39 bc	33 d	39 bc	39 bc	45 a	36 cd	37 bcd	35 cd
std deviation	5.3	3.6	6.3	3.2	3.3	3.3	5.0	4.8	4.4	5.6	2.8
FRUIT: LENGTH/WIDTH RATIO (leaf length/width along maximum dimensions) [LSR, r2 = 0.111, r11= 0.129]											
mean	1.29 b	1.24 bc	1.09 de	1.21 bcd	1.43 a	1.18 bcd	1.13 cde	1.06 e	1.12 cde	1.30 b	1.23 bc
std deviation	0.14	0.12	0.10	0.09	0.14	0.08	0.10	0.08	0.09	0.11	0.09
FRUIT: SIZE											
	medium	medium	large	medium	medium	medium	medium	large	medium	medium	medium
FRUIT: PREDOMINANT SHAPE											
	bi conical to wedged and conical	conical to bi-conical and wedged	wedged and conical and bi-conical	wedged to conical and bi-conical	bi-conical to conical and wedged	conical	conical to wedged	conical to wedged	wedged to conical and bi-conical	conical	conical

Table 41 continued

FRUIT: BAND WITHOUT ACHENES											
	medium	medium	narrow to medium	medium to narrow	medium	narrow	narrow	medium to narrow	medium	medium	narrow
FRUIT: COLOUR EXTERNAL (on fruit 3 days after harvest, RHS, 1995)											
	45A	46A	53A	45A	46A	45A	45A	44A	45A	46A	46A
FRUIT: EVENESS OF COLOUR											
	slightly uneven	uneven to slightly uneven	even to slightly uneven	slightly uneven	slightly uneven	slightly uneven	slightly uneven	slightly uneven	slightly uneven	slightly uneven	slightly uneven
FRUIT: GLOSSINESS											
	medium	medium	strong	medium	strong	strong	medium to strong	strong	medium	strong	strong
FRUIT: INSERTION OF ACHENES											
	below surface	below surface	below surface	below surface	below surface	level with surface	below surface	below surface	below surface	below surface	level with surface
FRUIT: INSERTION OF CALYX											
	above fruit	above fruit	above fruit	above fruit	above fruit	above fruit	with fruit level	above fruit	above fruit	above fruit	with fruit level
FRUIT: ATTITUDE OF CALYX SEGMENTS											
	spreading	clasping to spreading	spreading	spreading	reflexed to spreading	spreading	spreading	spreading	spreading to reflexed	spreading to reflexed	spreading to reflexed
FRUIT: SIZE OF CALYX IN RELATION TO FRUIT DIAMETER											
	same size	slightly larger	same size	same size to very slightly larger	same size to slightly larger	slightly larger	slightly smaller to same size	same size	slightly smaller	slightly larger	much larger
FRUIT: ADHERENCE OF CALYX											
	very strong	very strong	strong	strong	medium strong	weak	strong	medium strong	medium	medium strong	very strong
FRUIT: FIRMNESS											
	firm	firm	firm	firm	firm	medium firm	medium	firm	medium firm	soft	medium soft
FRUIT: COLOUR OF FLESH (RHS, 1995)											
	44A	44A	44A	43A	44A	43A	43A	39B	44A	44A	46B
FRUIT: HOLLOW CENTRE											
	absent or very weakly expressed	absent or very weakly expressed	weakly expressed	absent or very weakly expressed	absent or very weakly expressed	weakly expressed	weakly expressed	weakly to strongly expressed	weakly expressed	absent or very weakly expressed	weakly expressed
TIME OF FLOWERING											
	medium	early	medium to early	early	early	early	early	medium	early	late	medium to late
TYPE OF BEARING											
	partially remontant	partially remontant	partially remontant	partially remontant	partially remontant	partially remontant	partially remontant	partially remontant	partially remontant	not remontant	partially remontant

*Note: the mean values followed by the same letters are not significantly different at P≤0.01 according to Duncan's Multiple Range Test. LSR, r2 and r11 is the Least Significant Range for the first and the last ranking order respectively.

SUGARCANE
Saccharum hybrid

'Q176'

Application No: 99/137 Accepted: 30 Jun 1999.
Applicant: **Bureau of Sugar Experiment Stations,** Indooroopilly, QLD.

Characteristics (Table 42, Figure 50) Ploidy: cytologically complex polyploid and aneuploid interspecific sugarcane hybrid. Plant: perennial grass with erect to semi erect growth habit, medium tillers per stool. Leaf canopy is very light to light. Suckers are very few in number. Stem: culms are short with mean length to top visible dewlap (TVD) approximately 2.42m (range 1.76 to 3.12m). Alternate internodes of a culm are arranged in a weakly to medium zigzagged pattern. Length of longest internode on bud side is short with mean length approximately 17.5cm (range 14.3 to 21.0cm) and side opposite bud is very short to short with mean length approximately 17.1 cm (range 14.0 to 20.8cm). Diameter of longest internode central and perpendicular to bud is thick with mean approximately 24.6mm (range 19.2 to 31.2mm). Diameter of longest internode central and dissecting bud is thick with mean approximately 24.5mm (range 18.5 to 30.6mm). Internodes are cylindrical to concave-convex shaped and round in cross-section. Colour of dewaxed internode is yellow-green (RHS 144A) to greyed-brown (RHS 199A) exposed and greyed-yellow (RHS 160B) unexposed. Wax covering of internode is light to medium, with wax band distinct and narrow. Growth cracks are absent. Cork cracks are absent. Bud groove presence is medium and medium to long in length. Root band width on bud side is narrow (6.0-7.0mm). Bud is of very weak to weak prominence, ovate to rhomboid in shape, and with base near to leaf scar and tip level to the growth ring. Bud width excluding wings is very narrow to narrow and bud wing is medium to wide in width. Leaf scar is medium to prominent and oblique descending towards bud. Growth ring is flush. Leaf: lamina of TVD leaf is short to medium in length with mean approximately 1.57m (range 1.19 to 1.75m), very narrow to narrow with mean width approximately 36.1mm (range 28.6 to 41.4mm) at longitudinal midpoint, and curved near tip in attitude. Midrib of lamina at longitudinal midpoint is medium with mean 4.0mm (range 2.5 to 5.0mm). Lamina width to midrib width ratio is very low with mean approximately 9.2 (range 7.4 to 11.4). Leaf sheath of TVD leaf is medium in length with mean length approximately 33.2cm (range 25.5 to 39.5cm). Sheath of senescent leaves have weak adherence to culm. Hairs on abaxial leaf sheath surface (Group 57) are dense with medium length. Ligule is deltoid in shape medium at midrib section. Cilia along the free margin of the ligule (Group 61) are medium density and medium in length. Auricles are prominent and asymmetrical. Inner or underlapping auricle is lanceolate in shape and medium in size. Outer or overlapping auricle is deltoid shape and large in size. Flowering: flower is an open panicle and flowering is discontinuous and medium. Seed: seed or fruit is a caryopsis. Disease resistance: highly resistant to Fiji disease virus, highly resistant to Leaf Scald (*Xanthomonas albilineans* (Ashby) Dowson), intermediate resistance to Red Rot (*Glomerella tucumanensis* (Spego) Arx and Mueller), intermediate to *Pachymetra* Root Rot, and highly susceptible to sugarcane mosaic virus. Other characteristics: fibre quantity and quality are acceptable for milling purposes (impact reading 0.52, shear strength 32.0, short fibre 56.0%).

Origin and Breeding Controlled pollination: 'Q176' is the progeny of a controlled biparental cross made at Meringa (Gordonvale), QLD, between the female parent 'Q117' and the male parent '67C444'. Seed was collected from the pollinated female inflorescence and stored for germination in 1988. 'Q176' has very light to light leaf canopy compared with the female parent 'Q117' which is medium to heavy. 'Q176' has a grey-yellow (RHS 160B to 160C) unexposed internode colour, light to medium wax covering and a distinct wax band compared with 'Q117' which has a yellow-green (RHS 152B to 152D) internode colour, heavy wax covering, and indistinct wax band. Compared with its male parent '67C444', which is intermediate to susceptible to Fiji disease virus, 'Q176' is highly resistant. 'Q176' has been evaluated and selected by BSES in yield trials on the Burdekin Sugar Experiment Station and sites within the sugarcane growing area in the Burdekin region. Standard commercial varieties were also included in the trials for comparative purposes. Selection criteria: cane yield, commercial cane sugar (ccs), and sugar yield have been the main selection criteria. Disease resistance screening was conducted at the pathology farm (Eight Mile Plains) and in the Tully glasshouse. Propagation: after an initial seedling stage (using seed from the cross), all subsequent stages have involved vegetative propagation. Breeder: Bureau of Sugar Experiment Stations, QLD.

Choice of Comparators 'Q96', 'Q124', and 'Q127' were chosen, as these are most similar varieties of common knowledge grown in the Burdekin region. Together, they accounted for over 57% (4.57 million) of the Burdekin crop in 1998. The female parent 'Q117' was also included as a comparator and it was the major variety in the Burdekin in 1998 (37%, 2.96 million t). '67C444' was excluded because it can be distinguished on the basis of resistance to Fiji disease as stated above.

Comparative Trial Comparators: 'Q96', 'Q124', 'Q127'and 'Q117'. Location: conducted at Meringa Sugar Experiment Station (17º 12′S, 145º 45′E), Gordonvale, QLD. The trial was planted 26 Sep 1997, harvested on 3 Nov 1998 and ratooned. DUS data were recorded in early Jun 1999. Conditions: clones were propagated from vegetative cuttings and grown under field conditions. Soil type: white schist. Watering regime: rainfed. Chemicals: Aretan (400 ml/400 L) and suSCon (14 kg/ha). Fertilisers: DAP (120 kg/ha – N 21.6, P 24) at planting, Muriate of potash (200 kg/ha – K 100) and urea (180 kg/ha – N 83) on 1-2 Dec 1997; CK50/50 (512 kg/ha – N 199, K 120) on 24 Nov 1998. Trial design: clones were grown in a randomised complete block design with three replicates. Plots were single row by 9m, with 1.5m between rows. Measurements: taken from up to 20 stalks sampled randomly per plot.

Prior Applications and Sales
First sold in Australia in Jun 1998.

Description: **Dr Mike Cox, BSES**, Bundaberg, QLD.

Table 42 *Saccharum* varieties

	'Q176'	***'Q96'**	***'Q124'**	***'Q127'**	***'Q117'**
GROWTH HABIT	erect to semi-erect	semi-erect	erect to semi-erect	erect to semi-erect	erect semi-erect
TILLERING	medium	few to medium	few to medium	medium to many	medium
LEAF CANOPY	very light to light	light	medium	medium	medium to heavy
SUCKERING	very few	very few	very few	very few to few	very few
CULM HEIGHT (m) LSD (P ≤ 0.01) = 0.29					
mean	2.42a	2.59a	2.46a	2.69a	2.45a
std deviation	0.28	0.19	0.23	0.30	0.22
	short	medium	short to medium	medium	short
ALIGNMENT OF INTERNODES – Zigzaggedness					
	weak to medium	weak to medium	aligned to weak	medium	weak to medium
INTERNODE LENGTH – Bud Side (cm) LSD (P ≤ 0.01) = 2.36					
mean	17.5ab	21.8c	19.2bc	19.5bc	16.0a
std deviation	1.70	1.78	2.05	2.13	2.01
	short	long to very long	medium	medium	very short
INTERNODE LENGTH – Side Opposite Bud (cm) LSD (P ≤ 0.01) = 2.33					
mean	17.1ab	21.3c	19.0bc	19.0bc	15.6a
std deviation	1.70	1.73	2.13	2.20	2.04
	very short to short	long to very long	medium	medium	very short
INTERNODE WIDTH – Central Perpendicular to Bud (mm) LSD (P ≤ 0.01) = 1.79					
mean	24.6ab	22.5a	23.6a	23.9a	26.1b
std deviation	2.42	1.90	2.50	2.67	2.27
	thick	thin to medium	medium to thick	medium to thick	very thick
INTERNODE WIDTH – Central Dissecting Bud (mm) LSD (P ≤ 0.01) = 1.91					
mean	24.5a	23.2a	23.5a	23.6a	26.9b
std deviation	2.46	1.91	2.61	2.65	2.37
	thick	thin to medium	medium	medium	very thick
INTERNODE SHAPE					
	cylindrical to concave-convex	bobbin shaped	cylindrical to bobbin shaped	weakly conoidal	cylindrical to weakly tumescent
INTERNODE CROSS-SECTION					
	round	round	round	round	weakly oval
INTERNODE DEWAXED COLOUR (RHS) – Exposed					
	yellow-green (144A to 152B) to grey-brown (199A)	greyed-purple (187A to 187B)	greyed-orange (166A)	greyed-orange (166A) to yellow-green (146B)	yellow-green (152A) to greyed orange (165A)
INTERNODE DEWAXED COLOUR (RHS) – Unexposed					
	grey-yellow (160B to 160C)	yellow (11B) to greyed-orange (166A)	greyed-red (182D) to greyed-yellow (162C)	yellow-green (152D) to greyed-yellow (160A)	yellow-green (152B to 152 D)
INTERNODE WAX COVERING					
	light to medium	medium to heavy	medium to heavy	medium	heavy
WAX BAND DISTINCTIVENESS					
	distinct	distinct	distinct	distinct	indistinct

Table 42 continued

BAND WIDTH	narrow	very narrow to narrow	narrow	very narrow	narrow
GROWTH CRACKS	absent	absent	absent	absent	absent to very few
CORK CRACKS	absent	absent	few	numerous	very few to few
BUD GROOVE PRESENCE	medium	inconspicuous	inconspicuous	inconspicuous	medium
BUD GROOVE LENGTH	medium to long	very short	short	long	medium
BUD GROOVE DEPTH	very shallow to shallow	very shallow	very shallow	very shallow	very shallow to shallow
ROOT BAND WIDTH – Bud Side	narrow (6.0-7.0mm)	medium (7.0-9.4mm)	narrow (6.0-7.0mm)	wide (8.9mm)	narrow to medium (6.9-8.2mm)
BUD – PROMINENCE	very weak to weak	weak	weak	very weak to weak	very weak
BUD – SHAPE	ovate to rhomboid	ovate	round to ovate	ovate	oval to triangular pointed
BUD – POSITION OF BASE (Above Leaf Scar)	near	near	near to medium	near	medium
BUD – POSITION OF TIP (Relative to Growth Ring)	level	below	level	level to slightly below	above
BUD WIDTH (Excluding Wings)	very narrow to narrow	medium	medium	narrow to medium	narrow to medium
BUD WING WIDTH	medium to wide	narrow to medium	medium to wide	narrow to medium	narrow to medium
LEAF SCAR PROMINENCE	medium to prominent	prominent	prominent	prominent	prominent
GROWTH RING	flush	depressed to flush to swollen	swollen	flush	flush
LAMINA LENGTH (TVD Leaf) (m) LSD (P ≤ 0.01) = 0.11					
mean	1.57a	1.75b	1.61a	1.59a	1.56a
std deviation	0.12	0.15	0.12	0.09	0.12
	short to medium	very long	medium	short to medium	short
LAMINA WIDTH (Longitudinal Midpoint) (mm) LSD (P ≤ 0.01) = 5.3					
mean	36.1a	37.3ab	36.7a	41.1ab	42.8b
std deviation	3.4	4.0	4.7	5.5	4.9
	very narrow to narrow	narrow	very narrow to narrow	narrow to medium	medium
MIDRIB WIDTH (Longitudinal Midpoint) (mm) LSD (P ≤ 0.01) = 0.5					
mean	4.0b	4.1b	3.9ab	3.4a	4.0b
std deviation	0.5	0.5	0.5	0.5	0.6
	medium	medium to wide	medium	very narrow to narrow	medium

Table 42 continued

LAMINA WIDTH/MIDRIB WIDTH RATIO					
	very low	very low	low	very high	medium
LAMINA ATTITUDE	curve near tip	curve near middle	curve near middle	curve near middle	curve near middle
LEAF SHEATH – ADHERENCE TO CULM					
	weak	weak to medium	medium	weak to medium	weak to medium
LENGTH OF TVD LEAF SHEATH (cm) LSD (P ≤ 0.01) = 2.5					
mean	33.2b	38.3c	35.9bc	35.9bc	28.2a
std deviation	2.8	2.1	2.9	2.0	2.0
	medium	long to very long	long	long	very short
HAIR GROUP 57 – OCCURRENCE					
	dense	absent	absent	dense	dense
HAIR GROUP 57 – LENGTH					
	medium	n/a	n/a	very short	medium to long
LIGULE SHAPE	deltoid	deltoid	deltoid	crescentiform	deltoid
HAIR GROUP 61 – DENSITY/OCCURRENCE					
	medium	medium	medium to dense	dense	dense
AURICLE -PROMINENCE (Second Fully Unfurled Leaf)					
	prominent	inconspicuous	medium	inconspicuous	medium to prominent
AURICLE SHAPE – ULP					
	lanceolate	deltoid	lanceolate	deltoid	deltoid to dentoid
AURICLE SHAPE – OLP					
	deltoid	transitional	transitional	transitional	lanceolate
AURICLE SIZE – ULP					
	medium	very small to small	small	medium	medium
AURICLE SIZE – OLP					
	large	n/a	n/a	n/a	medium
FLOWERING	medium	medium to profuse	sparse	very sparse	sparse to medium

Means followed by the same letter are not significantly different at P ≤ 0.01, Duncan's Multiple Range Test

'Q177'

Application No: 99/138 Accepted: 30 Jun 1999.
Applicant: **Bureau of Sugar Experiment Stations,** Indooroopilly, QLD.

Characteristics (Table 43, Figure 51) Ploidy: cytologically complex polyploid and aneuploid interspecific sugarcane hybrid. Plant: perennial grass with erect growth habit, many tillers per stool. Leaf canopy is heavy. Suckers are very few in number. Stem: culms are medium with mean length to top visible dewlap (TVD) approximately 2.59m (range 2.25 to 3.06m). Alternate internodes of a culm are arranged in a weakly zigzagged pattern. Length of longest internode on bud side is medium to long with mean length approximately 17.3cm (range 14.5 to 21.5cm) and side opposite bud is medium to long with mean length approximately 16.9cm (range 14.3 to 21.1cm). Diameter of longest internode central and perpendicular to bud is thin to medium with mean approximately 21.1mm (range 17.8 to 24.1mm). Diameter of longest internode central and dissecting bud is thin to medium with mean approximately 21.5mm (range 17.9 to 24.3mm). Internodes are weakly conoidal shaped and round in cross-section. Colour of dewaxed internode is yellow-green (RHS 148A) exposed and greyed-yellow (RHS 160A) unexposed. Wax covering of internode is heavy, with wax band indistinct and medium in width. Growth cracks are absent. Cork cracks are absent. Bud groove is absent. Root band width on bud side is narrow to medium (7.5mm). Bud is of weak to medium prominence, ovate in shape, and with base near to leaf scar and tip level to the growth ring. Bud width excluding wings is medium to medium wide and bud wing is narrow to medium in width. Leaf scar is prominent and oblique descending towards bud. Growth ring is slightly swollen. Leaf: lamina of TVD leaf is medium in length with mean approximately 1.40m (range 1.11 to 2.43m), medium with mean width approximately 40.3mm (range 27.7 to 48.2mm) at longitudinal midpoint, and curved near tip in attitude. Midrib of lamina at longitudinal midpoint is medium with mean 3.57mm (range 2.5 to 4.5mm). Lamina width to midrib width ratio is medium with mean approximately

11.4 (range 9.3 to 17.0). Leaf sheath of TVD leaf is very long in length with mean length approximately 36.7cm (range 33.0 to 42.0cm). Sheath of senescent leaves have very weak to weak adherence to culm. Hairs on abaxial leaf sheath surface (Group 57) are absent. Ligule is crescentiform in shape and wide at midrib section. Cilia along the free margin of the ligule (Group 61) are dense and medium in length. Auricles are inconspicuous and symmetrical. Inner or underlapping auricle is transitional in shape. Outer or overlapping auricle is transitional in shape. Flowering: flower is an open panicle and flowering is discontinuous and sparse to medium. Seed: seed or fruit is a caryopsis. Disease resistance: very highly resistant to Fiji disease virus, highly resistant to Leaf Scald (*Xanthomonas albilineans* (Ashby) Dowson), intermediate to Red Rot (*Glomerella tucumanensis* (Spego) Arx and Mueller), susceptible to highly susceptible to *Pachymetra* Root Rot, and intermediate to sugarcane mosaic virus. Other characteristics: fibre quantity and quality are acceptable for milling purposes (impact reading 0.59, shear strength 24.0, short fibre 52.0%).

Origin and Breeding Controlled pollination: 'Q177' is the progeny of a controlled biparental cross made at Meringa (Gordonvale), QLD, between the female parent '75N1675' and the male parent 'Q121'. Seed was collected from the pollinated female inflorescence and stored for germination in 1988. 'Q177' is very highly resistant to Fiji Disease Virus, similar to its female parent '75N1675', while its male parent 'Q121' is resistant to intermediate. 'Q177' is susceptible to highly susceptible to *Pachymetra* root rot, similar to 'Q121', while '75N1675' has intermediate resistance. 'Q177' has been evaluated and selected by BSES in yield trials on the Burdekin Sugar Experiment Station and sites within the sugarcane growing area in the Burdekin region. Standard commercial varieties were also included in the trials for comparative purposes. Selection criteria: cane yield, commercial cane sugar (ccs), and sugar yield have been the main selection criteria. Disease resistance screening was conducted at the pathology farm (Eight Mile Plains) and in the Tully glasshouse. Propagation: after an initial seedling stage, all subsequent stages have involved vegetative propagation. Breeder: Bureau of Sugar Experiment Stations, QLD.

Choice of Comparators 'Q117' and 'Q165'ϕ were chosen as they are the most similar varieties of common knowledge grown in the Burdekin region. Together, these two varieties accounted for almost 40% (3.18 million t) of the Burdekin crop in 1998. The female parent '75N1675' was excluded because it has intermediate resistance to *Pachymetra* Root Rot while 'Q177' is susceptible to highly susceptible. The male parent 'Q121' was excluded because it is resistant to intermediate to Fiji Disease Virus while 'Q177' is very highly resistant. Therefore, the parents were excluded.

Comparative Trial Comparators: 'Q117', and 'Q165'ϕ. Location: conducted at Central Sugar Experiment Station (21° 9′S, 149° 7′E), Te Kowai, QLD. The trial was planted 22 Sep 1997, harvested on 9 Sep 1998 and ratooned. DUS data were recorded in early Jun 1999. Conditions: clones were propagated from vegetative cuttings and grown under field conditions. Soil type: Pioneer. Watering regime: flood irrigated. Chemicals: Lorsban (1 L/ha) was applied at planting and Gramoxin (1.2 L/ha) was used to control weeds in 1997, with a Diuron-Gramoxin mixture (0.5 kg/ha) used in 1998. Fertilisers: Mackay Planter (340 kg/ha – N 10.6%, P 6.4%, K 22.0%, S 6.3%) was applied at planting; GF-525 (610 kg/ha – N 21.4%, P 1.5%, K 15.2%, S 7.3%) was applied in Nov 1998. Trial design: clones were grown in a randomised complete block design with three replicates. Plots were single row by 9m, with 1.5m between rows. Measurements: taken from up to 20 stalks sampled randomly per plot.

Prior Applications and Sales
First sold in Australia in June 1998.

Description: **Dr Mike Cox,** BSES, Bundaberg, QLD.

Table 43 *Saccharum* varieties

	'Q177'	*'Q117'	*'Q165'ϕ
TILLERING			
	many	medium	medium
LEAF CANOPY			
	heavy	medium	medium
CULM HEIGHT (m) LSD (P ≤ 0.01) = 0.33			
mean	2.59a	2.62a	2.77a
std deviation	0.19	0.32	0.29
	medium	medium	tall
ALIGNMENT OF INTERNODES – Zigzaggedness			
	weak	weak to medium	weak to medium
INTERNODE LENGTH – Bud Side (cm) LSD (P ≤ 0.01) = 2.55			
mean	17.3b	14.1a	16.9b
std deviation	1.60	1.45	2.63
	medium to long	very short to short	medium
INTERNODE LENGTH – Side Opposite Bud (cm) LSD (P ≤ 0.01) = 2.53			
mean	16.9b	13.7a	16.7b
std deviation	1.54	1.47	2.64
	medium to long	very short to short	medium
INTERNODE WIDTH – Central Perpendicular to Bud (mm) LSD (P ≤ 0.01) = 2.07			
mean	21.1a	25.2b	21.4a
std deviation	1.6	2.0	2.1
	thin to medium	thick	thin to medium
INTERNODE WIDTH – Central Dissecting Bud (mm) LSD (P ≤ 0.01) = 2.24			
mean	21.5a	25.9b	21.7a
std deviation	1.7	2.1	2.3
	thin to medium	thick	thin to medium
INTERNODE SHAPE			
	weakly conoidal	tumescent	weakly conoidal to weakly concave-convex

INTERNODE CROSS-SECTION			
	round	weakly oval	weakly oval
INTERNODE DEWAXED COLOUR (RHS) – Exposed			
	yellow-green (148A)	yellow-green (147B)	yellow-green (146B)
INTERNODE DEWAXED COLOUR (RHS) – Unexposed			
	greyed-yellow (160A)	greyed-yellow (160A)	greyed-yellow (160B)
INTERNODE WAX COVERING			
	heavy	heavy to very heavy	light-medium to medium
WAX BAND DISTINCTIVENESS			
	indistinct	indistinct to medium	medium to distinct
WAX BAND WIDTH			
	medium	narrow to medium	medium
GROWTH CRACKS			
	absent	absent to very few	very few to few
CORK CRACKS			
	absent	absent to very few	absent
BUD GROOVE PRESENCE			
	absent	inconspicuous to medium	inconspicuous to medium
BUD GROOVE LENGTH			
	n/a	short to medium	medium
BUD GROOVE DEPTH			
	n/a	very shallow	very shallow to shallow
ROOT BAND WIDTH – bud side			
	narrow to medium	wide to very wide	very narrow to narrow
BUD – PROMINENCE			
	weak to medium	weak to medium	weak
BUD – SHAPE			
	ovate	oval to ovate	ovate
BUD – POSITION OF BASE (Above Leaf Scar)			
	near	near to medium	near
BUD – POSITION OF TIP (Relative to Growth Ring)			
	level	level to slightly above	level
BUD WIDTH (Excluding Wings)			
	medium to medium-wide	narrow to medium	medium
BUD WING WIDTH			
	narrow to medium	narrow	narrow
LEAF SCAR PROMINENCE			
	prominent	medium to prominent	prominent
LEAF SCAR SLOPE			
	oblique	weakly oblique	weakly oblique
GROWTH RING			
	slightly swollen	flush	weakly depressed to flush
LAMINA LENGTH (TVD Leaf) (m) LSD (P ≤ 0.01) = 0.21			
mean	1.40a	1.25a	1.28a
std deviation	0.21	0.22	0.24
	medium	short	short to medium
LAMINA WIDTH (Longitudinal Midpoint) (mm) LSD (P ≤ 0.01) = 4.3			
mean	40.3b	39.9b	34.5a
std deviation	3.5	5.0	4.3
	medium	medium	narrow
MIDRIB WIDTH (Longitudinal Midpoint) (mm) LSD (P ≤ 0.01) = 0.5			
mean	3.6b	2.9a	2.8a
std deviation	0.5	0.8	0.9
	medium	narrow	very narrow to narrow
LAMINA WIDTH/MIDRIB WIDTH RATIO			
	low	medium to high	medium
LAMINA ATTITUDE			
	curve near tip	curved to bent near tip	weakly curved near tip
LEAF SHEATH – ADHERENCE TO CULM			
	very weak to weak	weak to medium	weak to medium
LENGTH OF TVD LEAF SHEATH (cm) LSD (P ≤ 0.01) = 1.8			
mean	36.8b	28.0a	29.3a
std deviation	2.3	2.0	2.9
	very long	short	medium
HAIR GROUP 57 – OCCURRENCE			
	absent	very sparse to sparse	absent
HAIR GROUP 57 – LENGTH			
	n/a	very short	n/a
LIGULE SHAPE			
	crescentiform	deltoid	deltoid
LIGULE HEIGHT			
	wide	medium to wide	medium

HAIR GROUP 61 – DENSITY/OCCURRENCE	dense	medium	very sparse
AURICLE – PROMINENCE (Second Fully Unfurled Leaf)	inconspicuous	medium	medium
AURICLE SHAPE – ULP	transitional	lanceolate	lanceolate
AURICLE SHAPE – OLP	transitional	deltoid	transitional
AURICLE SIZE – ULP	n/a	small to medium	medium
AURICLE SIZE – OLP	n/a	very small	n/a
FLOWERING	sparse to medium	sparse to medium	profuse

Means followed by the same letter are not significantly different at $P \leq 0.01$, Duncan's Multiple Range Test

'Q178'

Application No: 99/192 Accepted: 13 Jul 1999.
Applicant: **Bureau of Sugar Experiment Stations,** Indooroopilly, QLD

Characteristics (Table 44, Figure 52) Ploidy: cytologically complex polyploid and aneuploid interspecific sugarcane hybrid. Plant: perennial grass with semi-erect to medium growth habit, medium tillers per stool. Leaf canopy is medium heavy. Suckers are very few to few in number. Stem: culms are medium to tall with mean length to top visible dewlap (TVD) approximately 2.87m (range 2.22 to 3.44m). Alternate internodes of a culm are arranged in a aligned to weakly zigzagged pattern. Length of longest internode on bud side is long to very long with mean length approximately 21.7cm (range 15.9 to 27.8cm) and side opposite bud is long to very long with mean length approximately 21.4cm (range 15.5 to 27.0cm). Diameter of longest internode central and perpendicular to bud is medium with mean approximately 23.3mm (range 18.3 to 27.6mm). Diameter of longest internode central and dissecting bud is medium to thick with mean approximately 23.9mm (range 18.4 to 28.4mm). Internodes are very weakly conoidal shaped and weakly oval in cross-section. Colour of dewaxed internode is yellow-green (RHS 144A) exposed and yellow-green (RHS 144B to 144C) unexposed. Wax covering of internode is medium, with wax band medium distinct and wide. Growth cracks are absent. Cork cracks are very few. Bud groove is absent to inconspicuous. Root band width on bud side is medium to wide (7.3 to 10.4mm). Bud is of weak to weak medium prominence, ovate in shape, and with base near to leaf scar and tip below to the growth ring. Bud width excluding wings is medium and bud wing is narrow to medium in width. Leaf scar prominence is medium and oblique descending towards bud. Growth ring is flush. Leaf: lamina of TVD leaf is very short to short in length with mean approximately 1.52m (range 1.27 to 1.68m), wide with mean width approximately 46.1mm (range 35.6 to 52.4mm) at longitudinal midpoint, and curved near middle in attitude. Midrib of lamina at longitudinal midpoint is wide with mean 4.3mm (range 3.2 to 5.3mm). Lamina width to midrib width ratio is medium with mean approximately 10.9 (range 8.5 to 14.2). Leaf sheath of TVD leaf is medium in length with mean length approximately 33.2 cm (range 28.0 to 36.5 cm). Sheath of senescent leaves have weak adherence to culm. Hairs on abaxial leaf sheath surface (Group 57) are absent. Ligule is crescentiform in shape and wide at midrib section. Cilia along the free margin of the ligule (Group 61) are medium density and long in length. Auricles are of medium prominence and asymmetrical. Inner or underlapping auricle is lanceolate in shape and small in size. Outer or overlapping auricle is transitional in shape. Flowering: flower is an open panicle and flowering is discontinuous and sparse. Seed: seed or fruit is a caryopsis. Disease resistance: very highly resistant to Fiji disease virus, very highly to highly resistant to Leaf Scald (*Xanthomonas albilineans* (Ashby) Dowson), intermediate resistance to Red Rot (*Glomerella tucumanensis* (Spego) Arx and Mueller), very highly resistant to *Pachymetra* Root Rot, and highly resistant to sugarcane mosaic virus. Other characteristics: fibre quantity and quality are acceptable for milling purposes (impact reading 0.51, shear strength 28.0, short fibre 74.0%). 'Q178 has resistance to sugarcane weevil borer (*Rhabdoscelus obscurus*) and good yield potential and ccs in areas where weevil borer is a problem.

Origin and Breeding Controlled pollination: 'Q178' is the progeny of a controlled biparental cross made at Meringa (Gordonvale), QLD, between the female parent '63N1700' and the male parent 'Q162'. Seed was collected from the pollinated female inflorescence and stored for germination in 1986. 'Q178' is very highly resistant to Fiji disease virus, as is the male parent 'Q162' while '63N1700' is intermediate-susceptible to susceptible. 'Q178' is very highly resistant to *Pachymetra* Root Rot while 'Q162' is resistant-intermediate to susceptible . 'Q178' has been evaluated and selected by BSES in yield trials on the Meringa Sugar Experiment Station and sites within the sugarcane growing area in the northern region. Standard commercial varieties were also included in the trials for comparative purposes. A distinguishing feature of 'Q178' is its resistance to sugarcane weevil borer (*Rhabdoscelus obscurus*). It was released specifically because of its superior resistance and has been targeted for cultivation on the Mourilyan sands and other weevil borer problem areas. Selection criteria: cane yield, commercial cane sugar (ccs), and sugar yield have been the main selection criteria. Disease resistance screening was conducted at the pathology farm (Eight Mile Plains) and in the Tully glasshouse. Propagation; after an initial seedling stage, all subsequent stages have involved vegetative propagation. Breeder: Bureau of Sugar Experiment Stations, QLD.

Choice of Comparators 'Q135' and 'Q152' were chosen, as they are the most similar varieties of common knowledge grown in north Queensland. 'Q152' accounted for almost 13% (1.51 million t) of the north Queensland crop in 1998. Neither parent was included as a comparator. 'Q162' is far more susceptible to *Pachymetra* Root Rot than 'Q178'. '63N1700' is susceptible to Fiji disease virus while 'Q178' is very highly resistant.

Comparative Trial Comparators: 'Q135', and 'Q152'. Location: conducted at Meringa Sugar Experiment Station (17º 12′S, 145º 45′E), Gordonvale, QLD. The trial was planted 26 Sep 1997, harvested on 3 Nov 1998 and ratooned. DUS data were recorded in early Jun 1999. Conditions: clones were propagated from vegetative cuttings and grown under field conditions. Soil type: white schist. Watering regime: rainfed. Chemicals: Aretan (400 ml/400 L) and suSCon (14 kg/ha). Fertilisers: DAP (120 kg/ha – N 21.6, P 24) at planting, Muriate of potash (200 kg/ha – K 100) and urea (180 kg/ha – N 83) on 1-2 Dec 1997; CK50/50 (512 kg/ha – N 199, K 120) on 24 Nov 1998. Trial design: clones were grown in a randomised complete block design with three replicates. Plots were single row by 9m, with 1.5m between rows. Measurements: taken from up to 20 stalks sampled randomly per plot.

Prior Applications and Sales
First sold in Australia in Jul 1998.

Description: **Dr Mike Cox, BSES**, Bundaberg, QLD.

Table 44 *Saccharum* varieties

	'Q178'	***'Q135'**	***'Q152'**
GROWTH HABIT			
	semi-erect to medium	semi-erect	erect to semi-erect
TILLERING			
	medium	medium to many	medium to many
LEAF CANOPY			
	medium to heavy	medium	medium to heavy
SUCKERING			
	very few to few	few	medium
CULM HEIGHT (m) LSD (P ≤ 0.01) = 0.29			
mean	2.87a	2.59a	2.87a
std deviation	0.24	0.22	0.32
	medium to tall	medium	medium to tall
ALIGNMENT OF INTERNODES – zigzaggedness			
	aligned to weak	weak	weak to medium
INTERNODE LENGTH – Bud Side (cm) LSD (P ≤ 0.01) = 2.36			
mean	21.7a	19.8a	19.9a
std deviation	2.74	1.67	1.33
	long to very long	medium to long	medium to long
INTERNODE LENGTH – Side Opposite Bud (cm) LSD (P ≤ 0.01) = 2.33			
mean	21.4a	19.6a	19.6a
std deviation	2.77	1.64	1.33
	long to very long	medium to long	medium to long
INTERNODE WIDTH – Central Perpendicular to Bud (mm) LSD (P ≤ 0.01) = 1.79			
mean	23.3a	22.6a	22.5a
std deviation	2.4	1.8	2.3
	medium	thin to medium	thin to medium
INTERNODE WIDTH – Central Dissecting Bud (mm) LSD (P ≤ 0.01) = 1.91			
mean	23.9a	22.5a	23.4a
std deviation	2.6	2.0	2.6
	medium to thick	thin	thin to medium
INTERNODE SHAPE			
	very weakly conoidal	bobbin shaped	concave-convex
INTERNODE CROSS-SECTION			
	weakly oval	weakly oval	oval
INTERNODE DEWAXED COLOUR (RHS) – Exposed			
	yellow-green (144A)	yellow-green (144A to 152A)	yellow-green (144A to 146B)
INTERNODE DEWAXED COLOUR (RHS) – Unexposed			
	yellow-green (144B to 144C)	yellow-green (144B to 144C)	yellow-green (151D to 154C)
INTERNODE WAX COVERING			
	medium	light to medium	medium to heavy
WAX BAND DISTINCTIVENESS			
	medium distinct	distinct	weakly distinct
WAX BAND WIDTH			
	wide	medium	medium to wide
GROWTH CRACKS			
	absent	absent	few
CORK CRACKS			
	very few	absent	few
BUD GROOVE PRESENCE			
	absent to inconspicuous	inconspicuous	absent
BUD GROOVE LENGTH			
	n/a	short to medium	n/a
BUD GROOVE DEPTH			
	very shallow	shallow to medium	n/a
ROOT BAND WIDTH – Bud Side			
	medium to wide	narrow	wide to very wide
BUD – PROMINENCE			
	weak to weak-medium	weak	very weak

BUD – SHAPE			
	ovate	oval to triangular pointed	ovate
BUD – POSITION OF BASE (Above Leaf Scar)			
	near	high	medium
BUD – POSITION OF TIP (Relative to Growth Ring)			
	below	level to above	below
BUD WIDTH (Excluding Wings)			
	medium	narrow	wide to very wide
BUD WING WIDTH			
	narrow to medium	narrow to medium	very narrow
LEAF SCAR PROMINENCE			
	medium	medium	prominent
LAMINA LENGTH (TVD Leaf) (m) LSD (P ≤ 0.01) = 0.11			
mean	1.52a	1.65b	1.57ab
std deviation	0.07	0.12	0.11
	very short to short	medium to long	short to medium
LAMINA WIDTH (Longitudinal Midpoint) (mm) LSD (P ≤ 0.01) = 5.3			
mean	46.1b	41.9ab	35.8a
std deviation	3.6	5.8	3.3
	wide	medium	very narrow to narrow
MIDRIB WIDTH (Longitudinal Midpoint) (mm) LSD (P ≤ 0.01) = 0.5			
mean	4.3b	3.7a	3.5a
std deviation	0.5	0.5	0.4
	wide	narrow	very narrow to narrow
LAMINA WIDTH/MIDRIB WIDTH RATIO			
	medium	high	low to medium
LAMINA ATTITUDE			
	curve near middle	curve near tip	curve near middle
LEAF SHEATH – ADHERENCE TO CULM			
	weak	weak	weak to medium
LENGTH OF TVD LEAF SHEATH (cm) LSD (P ≤ 0.01) = 2.5			
mean	33.2a	31.4a	30.9a
std deviation	1.6	3.4	2.1
	medium	short	very short to short
HAIR GROUP 57 – OCCURRENCE			
	absent	absent	sparse
HAIR GROUP 57 – LENGTH			
	n/a	n/a	very short
LIGULE SHAPE			
	crescentiform	deltoid	deltoid
LIGULE HEIGHT			
	wide	medium	wide
HAIR GROUP 61 – DENSITY/OCCURRENCE			
	medium	dense	dense
AURICLE -PROMINENCE (Second Fully Unfurled Leaf)			
	medium	medium to prominent	medium to prominent
AURICLE SHAPE – ULP			
	lanceolate	lanceolate	deltoid
AURICLE SIZE – ULP			
	small	medium to large	small
FLOWERING			
	sparse	medium to profuse	sparse

Means followed by the same letter are not significantly different at P ≤ 0.01, Duncan's Multiple Range Test

'Q179'

Application No: 99/193 Accepted: 13 Jul 1999.
Applicant: **Bureau of Sugar Experiment Stations,** Indooroopilly, QLD.

Characteristics (Table 45, Figure 53) Ploidy: cytologically complex polyploid and aneuploid interspecific sugarcane hybrid. Plant: perennial grass with semi-erect to medium growth habit, medium to many tillers per stool. Leaf canopy is medium. Suckers are few in number. Stem: culms are medium to tall with mean length to top visible dewlap (TVD) approximately 2.85m (range 2.37 to 3.40 m). Alternate internodes of a culm are arranged in a weakly zigzagged pattern. Length of longest internode on bud side is very long with mean length approximately 23.6cm (range 19.4 to 29.8cm) and side opposite bud is very long with mean length approximately 23.1cm (range 19.0 to 29.5cm). Diameter of longest internode central and perpendicular to bud is medium to thick with mean approximately 23.7mm (range 15.4 to 28.3mm). Diameter of longest internode central and dissecting bud is medium to thick with mean approximately 23.8mm (range 15.2 to 28.6mm). Internodes are cylindrical to conoidal and round in cross-section. Colour of dewaxed internode is yellow-green (RHS 146A) to greyed-orange (RHS 166A) exposed and greyed-yellow (RHS 160A) unexposed. Wax covering of internode is light, with wax band distinct and narrow to medium in width. Growth cracks are few. Cork cracks are few. Bud groove is inconspicuous and very short in length and very shallow. Root band width on bud side is medium (7.5 to 9.0mm). Bud is of weak prominence, ovate in shape, and with base near to leaf scar and tip below the growth ring. Bud width excluding wings is very narrow to narrow and bud wing is medium to wide in width. Leaf scar is prominent and oblique descending towards bud. Growth ring is variable. Leaf: lamina of TVD leaf is long in length with mean approximately 1.69m (range 1.47 to 1.89m), medium to wide in width with mean approximately 45.1mm (range 34.2 to 52.9mm) at longitudinal midpoint, and curved near

middle in attitude. Midrib of lamina at longitudinal midpoint is medium in width with mean 3.9mm (range 2.9 to 4.7mm). Lamina width to midrib width ratio is high with mean approximately 11.6 (range 9.3 to 14.5). Leaf sheath of TVD leaf is medium with mean length approximately 33.2cm (range 30.0 to 36.5cm). Sheath of senescent leaves have weak adherence to culm. Hairs on abaxial leaf sheath surface (Group 57) are very sparse and very short. Ligule is crescentiform in shape and medium at midrib section. Cilia along the free margin of the ligule (Group 61) are dense to very dense and very short. Auricles are of medium prominence and asymmetrical. Inner or underlapping auricle is deltoid in shape and small in size. Outer or overlapping auricle is transitional in shape. Flowering: flower is an open panicle and flowering is discontinuous and medium. Seed: seed or fruit is a caryopsis. Disease resistance: highly resistant to intermediate to Fiji disease virus, very highly resistant to resistant to Leaf Scald (*Xanthomonas albilineans* (Ashby) Dowson), resistant to intermediate to Red Rot (*Glomerella tucumanensis* (Spego) Arx and Mueller), intermediate to susceptible to *Pachymetra* Root Rot. Other characteristics: Fibre quantity and quality are acceptable for milling purposes (impact reading 0.44, shear strength 29.0, short fibre 68.0%).

Origin and Breeding Controlled pollination: 'Q179' is the progeny of a controlled biparental cross made at Meringa (Gordonvale), QLD, between the female parent '58N829' and the male parent '66N2008'. Seed was collected from the pollinated female inflorescence and stored for germination in 1978. 'Q179' is highly resistant to intermediate to Fiji disease virus while '58N829' is susceptible and '66N2008' is very highly resistant. 'Q179' has been evaluated and selected by BSES in yield trials on the Meringa Sugar Experiment Station and sites within the sugarcane growing area in the Herbert region. Standard commercial varieties were also included in the trials for comparative purposes. Selection criteria: cane yield, commercial cane sugar (ccs), and sugar yield have been the main selection criteria. Disease resistance screening was conducted at the pathology farm (Eight Mile Plains) and in the Tully glasshouse. Propagation: after an initial seedling stage, all subsequent stages have involved vegetative propagation. Breeder: Bureau of Sugar Experiment Stations, QLD.

Choice of Comparators 'Q115' and 'Q120' were chosen as they are the most similar varieties of common knowledge grown in the Herbert region. 'Q115' accounted for over 13% (0.56 million t) of the Herbert region crop in 1998. 'Q120' is a major variety in north Queensland (1.5 million t in 1998) and has recently been released in the Herbert region. Neither parent was included as a comparator. '58N829 is susceptible and '66N2008' is very highly resistant to Fiji disease virus while 'Q179' is highly resistant to intermediate.

Comparative Trial Comparators: 'Q115' and 'Q120'. Location: conducted at Meringa Sugar Experiment Station (17º 12′S, 145º 45′E), Gordonvale, QLD. The trial was planted 26 Sep 1997, harvested on 3 Nov 1998 and ratooned. DUS data were recorded in early Jun 1999. Conditions: clones were propagated from vegetative cuttings and grown under field conditions. Soil type: white schist. Watering regime: rainfed. Chemicals: Aretan (400 ml/400 L) and suSCon (14 kg/ha). Fertilisers: DAP (120 kg/ha – N 21.6, P 24) at planting, Muriate of potash (200 kg/ha – K 100) and urea (180 kg/ha – N 83) on 1-2 Dec 1997; CK50/50 (512 kg/ha – N 199, K 120) on 24 Nov 1998. Trial design: Clones were grown in a randomised complete block design with three replicates. Plots were single row by 9 m, with 1.5 m between rows. Measurements: taken from up to 20 stalks sampled randomly per plot.

Prior Applications and Sales
First sold in Australia in Jul 1998.

Description: **Dr Mike Cox, BSES**, Bundaberg, QLD.

Table 45 *Saccharum* varieties

	'Q179'	***'Q115'**	***'Q120'**
GROWTH HABIT			
	semi-erect to medium	erect to semi-erect	erect
TILLERING			
	medium to many	few to medium	medium
LEAF CANOPY			
	medium	medium	light
SUCKERING			
	few	very few to few	very few to few
CULM HEIGHT (m) LSD (P ≤ 0.01) = 0.29			
mean	2.85b	2.46a	2.46a
std deviation	0.20	0.21	0.25
	medium to tall	short to medium	short to medium
INTERNODE LENGTH – Bud Side (cm) LSD (P ≤ 0.01) = 2.36			
mean	23.6b	19.2a	18.7a
std deviation	2.25	1.72	2.27
	very long	medium	short to medium
INTERNODE LENGTH – Side Opposite Bud (cm) LSD (P ≤ 0.01) = 2.33			
mean	23.1b	19.0a	18.4a
std deviation	2.28	1.69	2.23
	very long	medium	short to medium
INTERNODE WIDTH – Central Perpendicular to Bud (mm) LSD (P ≤ 0.01) = 1.79			
mean	23.7a	21.7a	23.2a
std deviation	2.8	1.8	2.7
	medium to thick	very thin to thin	medium
INTERNODE WIDTH – Central Dissecting Bud (mm) LSD (P ≤ 0.01) = 1.91			
mean	23.8a	22.1a	22.8a
std deviation	2.9	2.0	2.7
	medium to thick	thin	thin to medium

INTERNODE SHAPE			
	cylindrical to conoidal	bobbin shaped to concave-convex	bobbin shaped
INTERNODE CROSS-SECTION			
	round	round	oval
INTERNODE DEWAXED COLOUR (RHS) – Exposed			
	yellow-green (146A) to greyed-orange (166A)	greyed-orange (165A)	yellow-green (152A to 144A)
INTERNODE DEWAXED COLOUR (RHS) – Unexposed			
	greyed-yellow (160A)	greyed-yellow (160A)	yellow (10B) to yellow-green (152D)
INTERNODE WAX COVERING			
	light	medium	medium
WAX BAND DISTINCTIVENESS			
	distinct	distinct	indistinct to indistinct-medium
WAX BAND WIDTH			
	narrow to medium	medium to wide	wide to very wide
GROWTH CRACKS			
	few	absent	absent
CORK CRACKS			
	few	very few	very few
BUD GROOVE PRESENCE			
	inconspicuous	absent	absent
BUD GROOVE LENGTH			
	very short	n/a	n/a
BUD GROOVE DEPTH			
	very shallow	n/a	n/a
ROOT BAND WIDTH – Bud Side			
	medium	narrow to medium	wide
BUD – PROMINENCE			
	weak	weak	medium
BUD – SHAPE			
	ovate	ovate	round to ovate
BUD – POSITION OF BASE (Above Leaf Scar)			
	near	medium to high	near
BUD – POSITION OF TIP (Relative to Growth Ring)			
	below	level	slightly below
BUD WIDTH (Excluding Wings)			
	very narrow to narrow	medium	very wide
BUD WING WIDTH			
	medium to wide	narrow	wide
GROWTH RING			
	depressed, flush, swollen	depressed	flush
LAMINA LENGTH (TVD Leaf) (m) LSD (P ≤ 0.01) = 0.11			
mean	1.69a	1.62a	1.71a
std deviation	0.10	0.13	0.09
	long	medium	long to very long
LAMINA WIDTH (Longitudinal Midpoint) (mm) LSD (P ≤ 0.01) = 5.3			
mean	45.1b	43.4ab	37.5a
std deviation	4.6	5.9	3.4
	medium to wide	medium	narrow
MIDRIB WIDTH (Longitudinal Midpoint) (mm) LSD (P ≤ 0.01) = 0.5			
mean	3.9a	4.0a	3.8a
std deviation	0.4	0.6	0.4
	medium	medium	narrow to medium
LAMINA WIDTH/MIDRIB WIDTH RATIO			
	high	medium	low
LAMINA ATTITUDE			
	curve near middle	curve near middle	curve near middle
LEAF SHEATH – ADHERENCE TO CULM			
	weak	weak to medium	medium to strong
LENGTH OF TVD LEAF SHEATH (cm) LSD (P ≤ 0.01) = 2.5			
mean	33.2a	32.6a	34.7a
std deviation	1.5	2.5	2.2
	medium	short to medium	medium to long
HAIR GROUP 57 – OCCURRENCE			
	very sparse	absent	absent
HAIR GROUP 57 – LENGTH			
	very short	n/a	n/a
HAIR GROUP 61 – DENSITY/OCCURRENCE			
	dense to very dense	dense	medium
AURICLE -PROMINENCE (Second Fully Unfurled Leaf)			
	medium	inconspicuous	medium
AURICLE SHAPE – ULP			
	deltoid	transitional	lanceolate
AURICLE SIZE – ULP			
	small	n/a	small
FLOWERING			
	medium	sparse to medium	sparse to medium

Means followed by the same letter are not significantly different at P ≤ 0.01, Duncan's Multiple Range Test.

'Q180'

Application No: 99/139 Accepted: 30 Jun 1999.
Applicant: **Bureau of Sugar Experiment Stations,** Indooroopilly, QLD.

Characteristics (Table 46, Figure 54) Ploidy: cytologically complex polyploid and aneuploid interspecific sugarcane hybrid. Plant: perennial grass with erect to semi-erect growth habit, few to medium tillers per stool. Leaf canopy is light to medium. Suckers are very few to few in number. Stem: culms are medium in height with mean length to top visible dewlap (TVD) approximately 2.58m (range 1.73 to 3.07m). Alternate internodes of a culm are arranged in a weakly zigzagged pattern. Length of longest internode on bud side is short with mean length approximately 17.5cm (range 14.3 to 21.8cm) and side opposite bud is very short to short with mean length approximately 17.2cm (range 13.9 to 21.6cm). Diameter of longest internode central and perpendicular to bud is medium with mean approximately 23.5mm (range 19.1 to 27.7mm). Diameter of longest internode central and dissecting bud is medium to thick with mean approximately 23.8mm (range 19.0 to 28.3mm). Internodes are strongly bobbin shaped and round in cross-section. Colour of dewaxed internode is yellow-green (RHS 144A to 152A) exposed and yellow-green (RHS 151A to 144C) unexposed. Wax covering of internode is light to medium, with wax band distinct and narrow. Growth cracks are absent. Cork cracks are medium. Bud groove is absent. Root band width on bud side is narrow to medium (7.1 to 7.5mm). Bud is of weak to medium prominence, ovate to pentagonal in shape, and with base near to leaf scar and tip above the growth ring. Bud width excluding wings is wide to very wide and bud wing is wide in width. Leaf scar is prominent and oblique descending towards bud. Growth ring is depressed. Leaf: lamina of TVD leaf is medium to long in length with mean approximately 1.66m (range 1.05 to 1.92m), medium in width with mean approximately 42.9mm (range 29.1 to 53.4mm) at longitudinal midpoint, and curved near middle in attitude. Midrib of lamina at longitudinal midpoint is narrow to medium in width with mean 3.8mm (range 2.2 to 5.3mm). Lamina width to midrib width ratio is high with mean approximately 11.5 (range 8.0 to 15.6). Leaf sheath of TVD leaf is medium to long with mean length approximately 33.9cm (range 28.0 to 46.0cm). Sheath of senescent leaves have medium adherence to culm. Hairs on abaxial leaf sheath surface (Group 57) are dense and long. Ligule is deltoid in shape and medium at midrib section. Cilia along the free margin of the ligule (Group 61) are of medium density and short to medium in length. Auricles are inconspicuous and asymmetrical. Inner or underlapping auricle is deltoid in shape and small to medium in size. Outer or overlapping auricle is transitional in shape. Flowering: flower is an open panicle and flowering is discontinuous and medium. Seed: seed or fruit is a caryopsis. Disease resistance: very highly susceptible to Fiji disease virus, very highly resistant to Leaf Scald (*Xanthomonas albilineans* (Ashby) Dowson), intermediate resistance to Red Rot (*Glomerella tucumanensis* (Spego) Arx and Mueller), intermediate to intermediate-susceptible to *Pachymetra* Root Rot, and highly resistant to sugarcane mosaic virus. Other characteristics: Fibre quantity and quality are acceptable for milling purposes (impact reading 0.69, shear strength 28.0, short fibre 64.0%).

Origin and Breeding Controlled pollination: 'Q180' is the progeny of a controlled biparental cross made at Meringa (Gordonvale), QLD, between the female parent '67N3184' and the male parent 'CO1007'. Seed was collected from the pollinated female inflorescence and stored for germination in 1988. 'Q180' is very highly susceptible to Fiji Disease Virus while '67N3184' is intermediate and 'CO1007' is resistant. 'Q180' is intermediate to intermediate-susceptible to *Pachymetra* root rot, similar to '67N3184', while 'CO1007' is resistant to intermediate, 'Q180' has been evaluated and selected by BSES in yield trials on the Burdekin Sugar Experiment Station and sites within the sugarcane growing area in the Burdekin region. Standard commercial varieties were also included in the trials for comparative purposes. Selection criteria: cane yield, commercial cane sugar (ccs), and sugar yield have been the main selection criteria. Disease resistance screening was conducted at the pathology farm (Eight Mile Plains) and in the Tully glasshouse. Propagation: after an initial seedling stage, all subsequent stages have involved vegetative propagation. Breeder: Bureau of Sugar Experiment Stations, QLD.

Choice of Comparators 'Q117' and 'Q165'(ф) were chosen, as they are the most similar varieties of common knowledge grown in the Burdekin region. Together, these two varieties accounted for almost 40% (3.18 million t) of the Burdekin crop in 1998. Neither parent was included as a comparator. Both parents can be distinguished from the candidate on the basis of resistance to Fiji disease. '67N3184' has intermediate resistance and 'CO1007' is resistant to Fiji Disease, while 'Q180' is very highly susceptible.

Comparative Trial Comparators: 'Q117', and 'Q165(ф)'. Location: conducted at Meringa Sugar Experiment Station (17º 12′ S, 145º 45′ E), Gordonvale, QLD. The trial was planted 26 Sep 1997, harvested on 3 Nov 1998 and ratooned. DUS data were recorded in early Jun 1999. Conditions: clones were propagated from vegetative cuttings and grown under field conditions. Soil type: white schist. Watering regime: rainfed. Chemicals: Aretan (400 ml/400 L) and suSCon (14 kg/ha). Fertilisers: DAP (120 kg/ha – N 21.6, P 24) at planting, Muriate of potash (200 kg/ha – K 100) and urea (180 kg/ha – N 83) on 1-2 Dec 1997; CK50/50 (512 kg/ha – N 199, K 120) on 24 Nov 1998; Trial design: Clones were grown in a randomised complete block design with three replicates. Plots were single row by 9 m, with 1.5 m between rows. Measurements: taken from up to 20 stalks sampled randomly per plot.

Prior Applications and Sales
First sold in Australia in Jun 1998.

Description: **Dr Mike Cox, BSES**, Bundaberg, QLD.

Table 46 *Saccharum* varieties

	'Q180'	*'Q117'	*'Q165'ϕ
TILLERING			
	few to medium	medium	few to medium
LEAF CANOPY			
	light to medium	medium to heavy	light
SUCKERING			
	very few to few	very few	very few to few
CULM HEIGHT (m) LSD (P ≤ 0.01) = 0.29			
mean	2.58a	2.45a	2.53a
std deviation	0.24	0.22	0.23
	medium	short	medium
ALIGNMENT OF INTERNODES – zigzaggedness			
	weak	weak	medium
INTERNODE LENGTH – Bud Side (cm) LSD (P ≤ 0.01) = 2.36			
mean	17.5a	16.0a	18.3a
std deviation	1.67	2.01	1.83
	short	very short	short to medium
INTERNODE LENGTH – Side Opposite Bud (cm) LSD (P ≤ 0.01) = 2.33			
mean	17.2a	15.6a	17.9a
std deviation	1.73	2.04	1.86
	very short to short	very short	short
INTERNODE WIDTH – Central Perpendicular to Bud (mm) LSD (P ≤ 0.01) = 1.79			
mean	23.5a	26.1b	21.9a
std deviation	2.4	2.3	2.6
	medium	very thick	thin
INTERNODE WIDTH – Central Dissecting Bud (mm) LSD (P ≤ 0.01) = 1.91			
mean	23.8a	26.9b	22.2a
std deviation	2.6	2.4	2.6
	medium to thick	very thick	thin
INTERNODE SHAPE			
	strongly bobbin shaped	cylindrical to bobbin shaped	concave-convex
INTERNODE CROSS-SECTION			
	round	weakly oval	oval
INTERNODE DEWAXED COLOUR (RHS) – Exposed			
	yellow-green (144A to 152A)	yellow-green (152A) to to greyed-orange (165A)	yellow-green (152A to 144A) to greyed-orange (177A)
INTERNODE DEWAXED COLOUR (RHS) – Unexposed			
	yellow-green (151A to 144C)	yellow-green (152B to 152D)	yellow (10B) to yellow-green (145A)
INTERNODE WAX COVERING			
	light to medium	heavy	medium to heavy
WAX BAND DISTINCTIVENESS			
	distinct	indistinct	distinct
WAX BAND WIDTH			
	narrow	narrow	medium to wide
GROWTH CRACKS			
	absent	absent to very few	absent
CORK CRACKS			
	medium	very few to few	absent
BUD GROOVE PRESENCE			
	absent	medium	inconspicuous
ROOT BAND WIDTH – Bud Side			
	narrow to medium	narrow to medium	very narrow to narrow
BUD – PROMINENCE			
	weak to medium	very weak	weak
BUD – SHAPE			
	ovate to pentagonal	oval to triangular pointed	triangular pointed
BUD – POSITION OF BASE (Above Leaf Scar)			
	near	medium	near
BUD – POSITION OF TIP (Relative to Growth Ring)			
	above	above	level to above
BUD WIDTH (Excluding Wings)			
	wide to very wide	narrow to medium	very narrow to narrow
BUD WING WIDTH			
	wide	narrow to medium	narrow to medium
LEAF SCAR PROMINENCE			
	prominent	prominent	medium
GROWTH RING			
	depressed	flush	flush
LAMINA LENGTH (TVD Leaf) (m) LSD (P ≤ 0.01) = 0.11			
mean	1.66a	1.56a	1.56a
std deviation	0.17	0.12	0.09
	medium to long	short	short

LAMINA WIDTH (Longitudinal Midpoint) (mm) LSD ($P \leq 0.01$) = 5.3			
mean	42.9b	42.8b	35.0a
std deviation	6.0	4.9	4.3
	medium	medium	very narrow
MIDRIB WIDTH (Longitudinal Midpoint) (mm) LSD ($P \leq 0.01$) = 0.5			
mean	3.8ab	4.0b	3.4a
std deviation	0.6	0.6	0.5
	narrow to medium	medium	very narrow to narrow
LAMINA WIDTH/MIDRIB WIDTH RATIO			
	high	medium	low to medium
LAMINA ATTITUDE			
	curve near middle	curve near middle	curve near middle
LEAF SHEATH – ADHERENCE TO CULM			
	medium	weak to medium	weak
LENGTH OF TVD LEAF SHEATH (cm) LSD ($P \leq 0.01$) = 2.5			
mean	33.9b	28.2a	31.6b
std deviation	3.6	2.0	2.4
	medium to long	very short	short
HAIR GROUP 57 – OCCURRENCE			
	dense	dense	absent
HAIR GROUP 57 – LENGTH			
	long	medium long	n/a
HAIR GROUP 61 – DENSITY/OCCURRENCE			
	medium	dense	sparse to medium
AURICLE -PROMINENCE (Second Fully Unfurled Leaf)			
	inconspicuous	medium to prominent	medium
AURICLE SHAPE – ULP			
	deltoid	deltoid to dentoid	lanceolate
AURICLE SHAPE – OLP			
	transitional	lanceolate	transitional
AURICLE SIZE – ULP			
	small to medium	medium	small to medium
AURICLE SIZE – OLP			
	n/a	medium	n/a
FLOWERING			
	medium	sparse to medium	profuse

Means followed by the same letter are not significantly different at $P \leq 0.01$, Duncan's Multiple Range Test

'Q181'

Application No: 99/194 Accepted: 13 Jul 1999.
Applicant: **Bureau of Sugar Experiment Stations,** Indooroopilly, QLD.

Characteristics (Table 47, Figure 55) Ploidy: cytologically complex polyploid and aneuploid interspecific sugarcane hybrid. Plant: perennial grass with semi-prostrate growth habit, few to medium tillers per stool. Leaf canopy is light to medium. Suckers are very few in number. Stem: culms are medium to tall with mean length to top visible dewlap (TVD) approximately 2.85 m (range 2.32 to 3.18m). Alternate internodes of a culm are arranged in a medium to strongly zigzagged pattern. Length of longest internode on bud side is medium to long with mean length approximately 20.0cm (range 16.4 to 25.0cm) and side opposite bud is medium to long with mean length approximately 19.7cm (range 15.3 to 25.0cm). Diameter of longest internode central and perpendicular to bud is thick to very thick with mean approximately 25.0mm (range 19.7 to 29.6mm). Diameter of longest internode central and dissecting bud is thick to very thick with mean approximately 25.8 mm (range 19.6 to 30.7 mm). Internodes are cylindrical to bobbin shaped and weakly oval in cross-section. Colour of dewaxed internode is yellow-green (RHS 144A) exposed and yellow-green (RHS 145B) unexposed. Wax covering of internode is medium, with wax band distinct and medium to wide. Growth cracks are absent to very few. Cork cracks are absent. Bud groove presence is medium and medium in length and deep. Root band width on bud side is medium. Bud is of weak prominence, triangular pointed in shape, and with base medium to leaf scar and tip above the growth ring. Bud width excluding wings is narrow to medium and bud wing is medium to wide in width. Leaf scar is medium to prominent and oblique descending towards bud. Growth ring is weakly swollen. Leaf: Lamina of TVD leaf is medium in length with mean approximately 1.64m (range 1.50 to 1.86m), wide to very wide in width with mean approximately 48.4mm (range 39.3 to 54.4mm) at longitudinal midpoint, and curved near tip in attitude. Midrib of lamina at longitudinal midpoint is medium in width with mean 3.9mm (range 3.4 to 4.9mm). Lamina width to midrib width ratio is very high with mean approximately 12.3 (range 9.5 to 14). Leaf sheath of TVD leaf is short to medium with mean length approximately 32.6cm (range 29.0 to 35.5cm). Sheaths of senescent leaves have weak adherence to culm. Hairs on abaxial leaf sheath surface (Group 57) are absent. Ligule is deltoid in shape and wide at midrib section. Cilia along the free margin of the ligule (Group 61) are of sparse density and medium in length. Auricles are of medium prominence and asymmetrical. Inner or underlapping auricle is lanceolate in shape and medium in size. Outer or overlapping auricle is lanceolate in shape and small in size. Flowering: flower is an open panicle and flowering is discontinuous and sparse to medium. Seed: seed or fruit is a caryopsis. Disease resistance: very highly resistant to Fiji disease virus, highly resistant to resistant to Leaf Scald (*Xanthomonas albilineans* (Ashby) Dowson), intermediate resistance to Red Rot (*Glomerella tucumanensis* (Spego) Arx and Mueller), resistant to intermediate to *Pachymetra* Root Rot, and highly resistant to sugarcane mosaic virus. Other characteristics: Fibre quantity and quality are acceptable for milling purposes (impact reading 0.40, shear strength 20.0, short fibre 65.0%).

Origin and Breeding Controlled pollination: 'Q181' is the progeny of a controlled biparental cross made at Meringa (Gordonvale), QLD, between the female parent '75N1649' and the male parent '66N2008'. Seed was collected from the pollinated female inflorescence and stored for germination in 1986. 'Q181' and '66N2008' are very highly resistant to Fiji disease virus while '75N1649' is resistant. 'Q181' has intermediate resistance to red rot while '66N2008' is highly susceptible. 'Q181' has been evaluated and selected by BSES in yield trials on the Meringa Sugar Experiment Station and sites within the sugarcane growing area in the northern region. Standard commercial varieties were also included in the trials for comparative purposes. Selection criteria: cane yield, commercial cane sugar (ccs), and sugar yield have been the main selection criteria. Disease resistance screening was conducted at the pathology farm (Eight Mile Plains) and in the Tully glasshouse. Propagation: after an initial seedling stage (using seed from the cross), all subsequent stages have involved vegetative propagation. Breeder: Bureau of Sugar Experiment Stations, QLD.

Choice of Comparators 'H56-752' and 'Q138' were chosen, as they are most similar varieties of common knowledge grown in north Queensland. 'Q138' is a major variety in north Queensland, accounting for almost 14% of the crop in 1998 (1.07 million t). 'H56-752' is a minor variety (0.7%, 77,000 t). Both parents were excluded as comparators. They can be distinguished from the candidate on the basis of disease resistance. '75N1649' is not as resistant to Fiji disease virus as 'Q181' , while '66N2008' is more susceptible to red rot and *Pachymetra* root rot.

Comparative Trial Comparators: 'H56-752' and 'Q138'. Location: conducted at Meringa Sugar Experiment Station (17º 12′ S, 145º 45′ E), Gordonvale, QLD. The trial was planted 26 Sep 1997, harvested on 3 Nov 1998 and ratooned. DUS data were recorded in early Jun 1999. Conditions: clones were propagated from vegetative cuttings and grown under field conditions. Soil type: white schist. Watering regime: rainfed. Chemicals: Aretan (400 ml/400 L) and suSCon (14 kg/ha). Fertilisers: DAP (120 kg/ha – N 21.6, P 24) at planting, Muriate of potash (200 kg/ha – K 100) and urea (180 kg/ha – N 83) on 1-2 Dec 1997; CK50/50 (512 kg/ha – N 199, K 120) on 24 Nov 1998. Trial design: Clones were grown in a randomised complete block design with three replicates. Plots were single row by 9 m, with 1.5 m between rows. Measurements: taken from up to 20 stalks sampled randomly per plot.

Prior Applications and Sales
First sold in Australia in Jul 1998.

Description: **Dr Mike Cox, BSES**, Bundaberg, QLD.

Table 47 *Saccharum* varieties

	'Q181'	***'H56-752'**	***'Q138'**
GROWTH HABIT			
	semi-prostrate	medium to semi-prostrate	medium to semi-prostrate
TILLERING			
	few to medium	medium	many
LEAF CANOPY			
	light to medium	light	heavy to very heavy
SUCKERING			
	very few	many to very many	few to medium
CULM HEIGHT (m) LSD (P ≤ 0.01) = 0.29			
mean	2.85ab	3.08b	2.56a
std deviation	0.19	0.28	0.30
	medium to tall	tall to very tall	medium
ALIGNMENT OF INTERNODES – zigzaggedness			
	medium	weak to medium	weak
INTERNODE LENGTH – Bud Side (cm) LSD (P ≤ 0.01) = 2.36			
mean	20.0a	19.3a	21.0a
std deviation	2.42	1.70	2.97
	medium to long	medium	long
INTERNODE LENGTH – Side Opposite Bud (cm) LSD (P ≤ 0.01) = 2.33			
mean	19.7a	18.8a	20.7a
std deviation	2.44	1.64	2.99
	medium to long	medium	long
INTERNODE WIDTH – Central Perpendicular to Bud (mm) LSD (P ≤ 0.01) = 1.79			
mean	25.0b	23.6ab	22.1a
std deviation	2.0	2.4	1.8
	thick to very thick	medium to thick	thin
INTERNODE WIDTH – Central Dissecting Bud (mm) LSD (P ≤ 0.01) = 1.91			
mean	25.8b	23.7ab	22.0a
std deviation	2.2	2.6	1.8
	thick to very thick	medium	thin
INTERNODE SHAPE			
	cylindrical to bobbin shaped	bobbin shaped	weakly bobbin shaped to conoidal
INTERNODE CROSS-SECTION			
	weakly oval	round	round

DESCRIPTIONS

INTERNODE DEWAXED COLOUR (RHS) – Exposed			
	yellow-green (144A)	yellow-green (144A to 144B to 164C)	yellow-green (144A)
INTERNODE DEWAXED COLOUR (RHS) – Unexposed			
	yellow-green (145B)	yellow-green (144C)	yellow-green (151D)
INTERNODE WAX COVERING			
	medium	heavy	very light
WAX BAND DISTINCTIVENESS			
	distinct	indistinct	distinct
WAX BAND WIDTH			
	medium to wide	very narrow to narrow	medium to wide
GROWTH CRACKS			
	absent to very few	absent	absent
BUD GROOVE PRESENCE			
	medium	medium	inconspicuous
BUD GROOVE LENGTH			
	medium	long	very short
BUD GROOVE DEPTH			
	deep	medium to deep	shallow
ROOT BAND WIDTH – Bud Side			
	medium	medium to wide	medium
BUD – PROMINENCE			
	medium	medium	weak to medium
BUD – SHAPE			
	triangular pointed	ovate	ovate to rhomboid
BUD – POSITION OF TIP (Relative to Growth Ring)			
	above	level to above	below
BUD WIDTH (Excluding Wings)			
	narrow to medium	wide	medium
BUD WING WIDTH			
	medium to wide	medium	narrow to medium
LEAF SCAR PROMINENCE			
	medium to prominent	medium	medium to prominent
LEAF SCAR SLOPE			
	oblique	oblique	oblique
GROWTH RING			
	weakly swollen	swollen	flush to swollen

LAMINA LENGTH (TVD Leaf) (m) LSD (P ≤ 0.01) = 0.11			
mean	1.64a	1.69a	1.65a
std deviation	0.07	0.09	0.09
	medium	long	medium to long
LAMINA WIDTH (Longitudinal Midpoint) (mm) LSD (P ≤ 0.01) = 5.3			
mean	48.4b	39.7a	46.7b
std deviation	3.5	3.0	6.8
	wide to very wide	narrow to medium	wide
MIDRIB WIDTH (Longitudinal Midpoint) (mm) LSD (P ≤ 0.01) = 0.5			
mean	3.9a	3.4a	4.5b
std deviation	0.4	0.4	0.5
	medium	very narrow to narrow	very wide
LAMINA WIDTH/MIDRIB WIDTH RATIO			
	very high	high	low to medium
LAMINA ATTITUDE			
	curve near tip	curve near middle	curve near middle
LEAF SHEATH – ADHERENCE TO CULM			
	weak	weak	medium
LENGTH OF TVD LEAF SHEATH (cm) LSD (P ≤ 0.01) = 2.5			
mean	32.6a	30.6a	32.4a
std deviation	1.4	1.7	2.0
	short to medium	very short to short	short to medium
HAIR GROUP 57 – OCCURRENCE			
	absent	sparse	sparse
LIGULE HEIGHT			
	wide	medium	wide
HAIR GROUP 61 – DENSITY/OCCURRENCE			
	sparse	medium	medium dense
AURICLE SHAPE – OLP			
	lanceolate	transitional	deltoid
AURICLE SIZE – ULP			
	medium	medium to large	small
AURICLE SIZE – OLP			
	small	n/a	small
FLOWERING			
	sparse to medium	very sparse	very sparse

Means followed by the same letter are not significantly different at P ≤ 0.01, Duncan's Multiple Range Test.

'Q182'

Application No: 99/195 Accepted: 13 Jul 1999.
Applicant: **Bureau of Sugar Experiment Stations,** Indooroopilly, QLD.

Characteristics (Table 48, Figure 56) Ploidy: cytologically complex polyploid and aneuploid interspecific sugarcane hybrid. Plant: perennial grass with medium growth habit, medium tillers per stool. Leaf canopy is light. Suckers are very few in number. Stem: culms are short to medium with mean length to top visible dewlap (TVD) approximately 2.38 m (range 1.93 to 2.84m). Alternate internodes of a culm are arranged in a strongly zigzagged pattern. Length of longest internode on bud side is very long with mean length approximately 25.1cm (range 18.0 to 29.2cm) and side opposite bud is very long with mean length approximately 24.9cm (range 17.8 to 28.8cm). Diameter of longest internode central and perpendicular to bud is thin to medium with mean approximately 20.9mm (range 13.8 to 27.5mm). Diameter of longest internode central and dissecting bud is thin to medium with mean approximately 21.9mm (range 13.7 to 28.5mm). Internodes are cylindrical to weakly concave-convex shaped and oval in cross-section. Colour of dewaxed internode is yellow-green (RHS 146C) exposed and yellow-green (RHS 145B) unexposed. Wax covering of internode is medium, with wax band indistinct to medium and narrow. Growth cracks are numerous. Cork cracks are few to few-medium. Bud groove is inconspicuous to medium in prominence, medium-long to long in length and shallow to shallow-medium in depth. Root band width on bud side is wide (10.0 to 12.0mm). Bud is of weak to weak-medium prominence, pentagonal in shape, and with base near to leaf scar and tip below the growth ring. Bud width excluding wings is medium and bud wing is medium-wide to wide in width. Leaf scar is prominent and oblique descending towards bud. Growth ring is weakly depressed to flush. Leaf: lamina of TVD leaf is medium in length with mean approximately 1.43m (range 0.90 to 1.75m), medium to wide in width with mean approximately 41.9mm (range 29.8 to 49.5mm) at longitudinal midpoint, and curved near middle in attitude. Midrib of lamina at longitudinal midpoint is medium in width with mean 3.7mm (range 1.2 to 4.8mm). Lamina width to midrib width ratio is low to medium with mean approximately 12.1 (range 6.7 to 24.8). Leaf sheath of TVD leaf is medium with mean length approximately 30.4cm (range 25.0 to 36.0cm). Sheath of senescent leaves have weak adherence to culm. Hairs on abaxial leaf sheath surface (Group 57) are medium to dense and long. Ligule is deltoid in shape and medium at midrib section. Cilia along the free margin of the ligule (Group 61) are of medium-dense to dense density and very short to short in length. Auricles are medium in conspicuousness and asymmetrical. Inner or underlapping auricle is lanceolate in shape and medium in size. Outer or overlapping auricle is deltoid in shape and small to medium in size. Flowering: flower is an open panicle and flowering is discontinuous and profuse. Seed: seed or fruit is a caryopsis. Disease resistance: resistant to Fiji disease virus, resistant to Leaf Scald (*Xanthomonas albilineans* (Ashby) Dowson), resistant to Red Rot (*Glomerella tucumanensis* (Spego) Arx and Mueller), intermediate to *Pachymetra* Root Rot, and resistant to sugarcane mosaic virus. Other characteristics: Fibre quantity and quality are acceptable for milling purposes (impact reading 0.63, shear strength 28.7, short fibre 59.3%).

Origin and Breeding Controlled pollination: 'Q182' is the progeny of a controlled biparental cross made at Meringa (Gordonvale), QLD, between the female parent 'RK65-122' and the male parent 'L62-68'. Seed was collected from the pollinated female inflorescence and stored for germination in 1983. 'Q182' is resistant (3) to Fiji disease virus while 'RK65-122' is very highly resistant and 'L62-68' has intermediate resistant. 'Q182' has been evaluated and selected by BSES in yield trials on the Southern Sugar Experiment Station and sites within the sugarcane growing area in the southern region. Standard commercial varieties were also included in the trials for comparative purposes. Selection criteria: cane yield, commercial cane sugar (ccs), and sugar yield have been the main selection criteria. Disease resistance screening was conducted at the pathology farm (Eight Mile Plains) and in the Tully glasshouse. Propagation: after an initial seedling stage, all subsequent stages have involved vegetative propagation. Breeder: Bureau of Sugar Experiment Stations, QLD.

Choice of Comparators 'Q136' and 'Q138' were chosen, as they are most similar varieties of common knowledge grown in south Queensland. Together, these two varieties accounted for 10.8% (0.64 million t) of the south Queensland crop in 1998. Neither parent was included as a comparator. Both parents can be distinguished from the candidate on the basis of resistance to Fiji disease. 'RK65-122' is more resistant and 'L62-68' less resistant to Fiji disease virus than 'Q182'.

Comparative Trial Comparators: 'Q136', and 'Q138'. Location: conducted at Central Sugar Experiment Station (21° 9′ S, 149° 7′ E), Te Kowai, QLD. The trial was planted 22 Sep 1997, harvested on 9 Sep 1998 and ratooned. DUS data were recorded in early Jun 1999. Conditions: clones were propagated from vegetative cuttings and grown under field conditions. Soil type: Pioneer. Watering regime: flood irrigated. Chemicals: Lorsban (1 L/ha) was applied at planting and Gramoxin (1.2 L/ha) was used to control weeds in 1997, with a Diuron-Gramoxin mixture (0.5 kg/ha) used in 1998. Fertilisers: Mackay Planter (340 kg/ha – N 10.6%, P 6.4%, K 22.0%, S 6.3%) was applied at planting; GF-525 (610 kg/ha – N 21.4%, P 1.5%, K 15.2%, S 7.3%) was applied in Nov 1998. Trial design: clones were grown in a randomised complete block design with three replicates. Plots were single row by 9m, with 1.5m between rows. Measurements: taken from up to 20 stalks sampled randomly per plot.

Prior Applications and Sales
First sold in Australia in Mar 1999.

Description: **Dr Mike Cox, BSES**, Bundaberg, QLD.

Table 48 *Saccharum* varieties

	'Q182'	*'Q136'	*'Q138'
GROWTH HABIT			
	medium	medium	semi-erect
LEAF CANOPY			
	light	light to medium	medium
SUCKERING			
	very few medium	few to	very few to few
CULM HEIGHT (m) LSD (P ≤ 0.01) = 0.33			
mean	2.38a	2.40a	2.73a
std deviation	0.21	0.30	0.26
	short to medium	short to medium	medium to tall
ALIGNMENT OF INTERNODES – zigzaggedness			
	strong	strong	weak to medium
INTERNODE LENGTH – Bud Side (cm) LSD (P ≤ 0.01) = 2.55			
mean	25.1b	18.6a	17.5a
std deviation	3.01	2.62	2.70
	very long	long	medium long
INTERNODE LENGTH – Side Opposite Bud (cm) LSD (P ≤ 0.01) = 2.53			
mean	24.9b	18.3a	17.4a
std deviation	3.00	2.58	2.55
	very long	long	medium long
INTERNODE WIDTH – Central Perpendicular to Bud (mm) LSD (P ≤ 0.01) = 2.07			
mean	20.9a	20.3a	23.6b
std deviation	2.9	1.9	2.4
	thin to medium	thin	medium
INTERNODE WIDTH – Central Dissecting Bud (mm) LSD (P ≤ 0.01) = 2.24			
mean	21.9ab	20.4a	23.9b
std deviation	2.8	1.9	2.4
	thin to medium	thin	medium to thick
INTERNODE SHAPE			
	cylindrical to weakly concave-convex	cylindrical to weakly bobbin shaped	conoidal
INTERNODE CROSS-SECTION			
	oval	round	round
INTERNODE DEWAXED COLOUR (RHS) – Exposed			
	yellow-green (146C)	yellow-green (144A)	yellow-green (144A)
INTERNODE DEWAXED COLOUR (RHS) – Unexposed			
	yellow-green (145B)	yellow-green (145C to 150D)	greyed-yellow (160A)
INTERNODE WAX COVERING			
	medium	medium to medium-heavy	light-medium to medium
WAX BAND DISTINCTIVENESS			
	indistinct to medium	medium to distinct	distinct
WAX BAND WIDTH			
	narrow	medium to wide	medium
GROWTH CRACKS			
	numerous	absent	few-medium to medium
CORK CRACKS			
	few to few-medium	very few	few
BUD GROOVE PRESENCE			
	inconspicuous to medium	absent	medium
BUD GROOVE LENGTH			
	medium-long to long	n/a	medium to medium-long
BUD GROOVE DEPTH			
	shallow to shallow-medium	n/a	shallow
ROOT BAND WIDTH – Bud Side			
	wide	medium	medium
BUD – PROMINENCE			
	weak to weak-medium	medium	medium
BUD – SHAPE			
	pentagonal	round	oval to ovate
BUD – POSITION OF BASE (Above Leaf Scar)			
	near	medium	near
BUD – POSITION OF TIP (Relative to Growth Ring)			
	below	slightly below	slightly below
BUD WIDTH (Excluding Wings)			
	medium	medium	narrow to medium
BUD WING WIDTH			
	medium-wide to wide	medium to medium-wide	narrow to medium
LEAF SCAR PROMINENCE			
	prominent	medium	medium
LEAF SCAR SLOPE			
	oblique	weakly oblique	level to very weakly oblique

GROWTH RING			
	weakly depressed to flush	swollen	swollen
LAMINA LENGTH (TVD Leaf) (m) LSD (P ≤ 0.01) = 0.21			
mean	1.43a	1.40a	1.48a
std deviation	0.22	0.22	0.15
	medium	medium	medium to long
LAMINA WIDTH (Longitudinal Midpoint) (mm) LSD (P ≤ 0.01) = 4.3			
mean	41.9a	41.7a	49.4b
std deviation	5.3	5.4	5.3
	medium to wide	medium	wide to very wide
MIDRIB WIDTH (Longitudinal Midpoint) (mm) LSD (P ≤ 0.01) = 0.5			
mean	3.7b	3.1a	4.4c
std deviation	0.8	0.7	0.5
	medium	narrow to medium	very wide
LAMINA WIDTH/MIDRIB WIDTH RATIO			
	low to medium	medium to high	low
LAMINA ATTITUDE			
	curve near middle	curve near tip	bent near tip
LEAF SHEATH – ADHERENCE TO CULM			
	weak	weak to medium	weak to medium
LENGTH OF TVD LEAF SHEATH (cm) LSD (P ≤ 0.01) = 1.8			
mean	30.4a	31.9a	30.1a
std deviation	2.6	2.8	1.6
	medium	medium to long	medium
HAIR GROUP 57 – OCCURRENCE			
	medium to dense	medium	sparse
HAIR GROUP 57 – LENGTH			
	long	short	short to short-medium
LIGULE SHAPE			
	deltoid	deltoid to crescentiform	deltoid
LIGULE HEIGHT			
	medium	medium	wide
HAIR GROUP 61 – DENSITY/OCCURRENCE			
	medium-dense to dense	sparse to medium	sparse-medium to medium
AURICLE – PROMINENCE (Second Fully Unfurled Leaf)			
	medium	medium	medium
AURICLE SHAPE – OLP			
	deltoid	transitional	deltoid
AURICLE SIZE – ULP			
	medium	very small to small	very small to small
AURICLE SIZE – OLP			
	small to medium	n/a	very small
FLOWERING			
	profuse	medium	very sparse

Means followed by the same letter are not significantly different at P ≤ 0.01, Duncan's Multiple Range Test.

'Q185'

Application No: 99/196 Accepted: 13 Jul 1999.
Applicant: **Bureau of Sugar Experiment Stations,** Indooroopilly, QLD.

Characteristics (Table 49, Figure 57) Ploidy: cytologically complex polyploid and aneuploid interspecific sugarcane hybrid. Plant: perennial grass with erect growth habit, many tillers per stool. Leaf canopy is medium to heavy. Suckers are very few in number. Stem: Culms are short with mean length to top visible dewlap (TVD) approximately 2.32m (range 1.91 to 2.70m). Alternate internodes of a culm are arranged in a medium zigzagged pattern. Length of longest internode on bud side is long with mean length approximately 18.8cm (range 14.0 to 25.4cm) and side opposite bud is long with mean length approximately 18.6cm (range 13.8 to 25.0cm). Diameter of longest internode central and perpendicular to bud is very thin to thin with mean approximately 19.1mm (range 15.2 to 29.7mm). Diameter of longest internode central and dissecting bud is very thin to thin with mean approximately 19.6mm (range 15.5 to 29.7mm). Internodes are cylindrical shaped and weakly oval in cross-section. Colour of dewaxed internode is greyed-brown (RHS 199A) to brown (RHS 200C) exposed and greyed-yellow (RHS 160A) unexposed. Wax covering of internode is medium to heavy, with wax band distinct and narrow to narrow-medium in width. Growth cracks are very few-few to few. Cork cracks are medium-numerous to numerous. Bud groove is inconspicuous and medium to long in length and very shallow to shallow in depth. Root band width on bud side is narrow (range 6.0 to 8.5mm). Bud is of very weak-weak to weak prominence, round in shape and with base medium to high above leaf scar and tip slightly below the growth ring. Bud width excluding wings is narrow and bud wing is narrow to medium in width. Leaf scar is medium to prominent and level to weakly oblique descending towards bud. Growth ring is swollen. Leaf: lamina of TVD leaf is medium in length with mean approximately 1.39m (range 0.80 to 1.65m), very narrow to narrow with mean width approximately 33.7mm (range 19.0 to 41.0mm) at longitudinal midpoint, and curved near tip in attitude. Midrib of lamina at longitudinal midpoint is very narrow to narrow with mean 2.81mm (range 0.80 to 4.50mm). Lamina width to midrib width ratio is medium with mean approximately 13.3 (range 8.2 to 36.0). Leaf sheath of TVD leaf is very short in length with mean length approximately 26.0cm (range 21.0 to 30.5cm). Sheath of senescent leaves have weak adherence to culm. Hairs on abaxial leaf sheath surface (Group 57) are very sparse and very short in length. Ligule is deltoid in shape medium width at midrib section. Cilia along the free margin of the ligule (Group 61) are

medium density and very short to short in length. Auricles are inconspicuous to medium and weakly asymmetrical. Inner or underlapping auricle is dentoid in shape and very small to small in size. Outer or overlapping auricle is transitional in shape. Flowering: flower is an open panicle and flowering is discontinuous and sparse. Seed: seed or fruit is a caryopsis. Disease resistance: very highly to highly resistant to Fiji disease virus, highly resistant to Leaf Scald (*Xanthomonas albilineans* (Ashby) Dowson), intermediate resistant to *Pachymetra* Root Rot virus. Other characteristics: Fibre quantity and quality are acceptable for milling purposes (impact reading 0.70, shear strength 25.0, short fibre 74.0%).

Origin and Breeding Controlled pollination: 'Q185' is the progeny of a controlled biparental cross made at Meringa (Gordonvale), QLD, between the female parent '75C35' and the male parent '66C807'. Seed was collected from the pollinated female inflorescence and stored for germination in 1989. 'Q185' is very highly to highly resistant to Fiji disease virus while '75C35' is resistant and '66C807' is highly resistant. 'Q185' has better resistance to *Pachymetra* root rot compared with '75C35' and '66C807'. 'Q185' has been evaluated and selected by BSES in yield trials on the Central Sugar Experiment Station and sites within the sugarcane growing area in the central region. Standard commercial varieties were also included in the trials for comparative purposes. Selection criteria: cane yield, commercial cane sugar (ccs), and sugar yield have been the main selection criteria. Disease resistance screening was conducted at the pathology farm (Eight Mile Plains) and in the Tully glasshouse. Propagation: after an initial seedling stage, all subsequent stages have involved vegetative propagation. Breeder: Bureau of Sugar Experiment Stations, QLD.

Choice of Comparators 'Q124' and 'Q136' were chosen, as they are the most similar varieties of common knowledge grown in central Queensland. Together, these two varieties accounted for over 91% (10.4 million t) of the central Queensland crop in 1998. 'Q124' is the major variety in Queensland, accounting for 42.6% of the total crop in 1998. Neither parent was included as a comparator. Both parents can distinguishable from the candidate variety on the basis of disease resistance as stated above.

Comparative Trial Comparators: 'Q124', and 'Q136'. Location: conducted at Central Sugar Experiment Station (21º 9′S, 149º 7′E), Te Kowai, QLD. The trial was planted 22 Sep 1997, harvested on 9 Sep 1998 and ratooned. DUS data were recorded in early Jun 1999. Conditions: clones were propagated from vegetative cuttings and grown under field conditions. Soil type: Pioneer. Watering regime: flood irrigated. Chemicals: Lorsban (1 L/ha) was applied at planting and Gramoxin (1.2 L/ha) was used to control weeds in 1997, with a Diuron-Gramoxin mixture (0.5 kg/ha) used in 1998. Fertilisers: Mackay Planter (340 kg/ha – N 10.6%, P 6.4%, K 22.0%, S 6.3%) was applied at planting; GF-525 (610 kg/ha – N 21.4%, P 1.5%, K 15.2%, S 7.3%) was applied in Nov 1998. Trial design: clones were grown in a randomised complete block design with three replicates. Plots were single row by 9m, with 1.5m between rows. Measurements: taken from up to 20 stalks sampled randomly per plot.

Prior Applications and Sales
First sold in Australia in May 1999.

Description: **Dr Mike Cox,** BSES, Bundaberg, QLD.

Table 49 *Saccharum* varieties

	'Q185'	***'Q124'**	***'Q136'**
GROWTH HABIT			
	erect	erect	medium
TILLERING			
	many	few	medium
LEAF CANOPY			
	medium to heavy	light to medium	light to medium
SUCKERING			
	very few	very few	few to medium
CULM HEIGHT (m) LSD (P ≤ 0.01) = 0.33			
mean	2.32a	2.71b	2.40ab
std deviation	0.18	0.31	0.30
	short	medium to tall	short to medium
ALIGNMENT OF INTERNODES – zigzaggedness			
	medium	aligned to weak	strong
INTERNODE LENGTH – Bud Side (cm) LSD (P ≤ 0.01) = 2.55			
mean	18.8a	17.3a	18.6a
std deviation	2.33	2.64	2.62
	long	medium to long	long
INTERNODE LENGTH – Side Opposite Bud (cm) LSD (P ≤ 0.01) = 2.53			
mean	18.6a	17.1a	18.3a
std deviation	2.32	2.66	2.58
	long	medium to long	long
INTERNODE WIDTH – Central Perpendicular to Bud (mm) LSD (P ≤ 0.01) = 2.07			
mean	19.1a	24.4b	20.3a
std deviation	2.3	2.8	1.9
	very thin to thin	medium to thick	thin
INTERNODE WIDTH – Central Dissecting Bud (mm) LSD (P ≤ 0.01) = 2.24			
mean	19.6a	24.1b	20.4a
std deviation	2.6	3.0	1.9
	very thin to thin	medium to thick	thin
INTERNODE SHAPE			
	cylindrical	cylindrical to weakly obconodial	cylindrical to weakly bobbin shaped
INTERNODE CROSS-SECTION			
	weakly oval	weakly oval	round

INTERNODE DEWAXED COLOUR (RHS) – Exposed			
	greyed-brown (199A) to brown (200C)	greyed-red (182C)	yellow-green (144A)
INTERNODE DEWAXED COLOUR (RHS) – Unexposed			
	greyed-yellow (160A)	greyed-yellow (162A)	yellow-green (145C to 150D)
INTERNODE WAX COVERING			
	medium to heavy	medium	medium to medium heavy
WAX BAND DISTINCTIVENESS			
	distinct	distinct	medium to distinct
WAX BAND WIDTH			
	narrow to narrow-medium	medium	medium to wide
GROWTH CRACKS			
	very few-few to few	absent to very few	absent
CORK CRACKS			
	medium-numerous to numerous	very few	very few
BUD GROOVE PRESENCE			
	inconspicuous	absent to inconspicuous	absent
BUD GROOVE LENGTH			
	medium to long	very short	n/a
BUD GROOVE DEPTH			
	very shallow to shallow	very shallow	n/a
ROOT BAND WIDTH – Bud Side			
	narrow	medium to wide	medium
BUD – PROMINENCE			
	very weak-weak to weak	weak	medium
BUD – SHAPE			
	round	ovate to rhomboid	round
BUD – POSITION OF BASE (Above Leaf Scar)			
	medium to high	near to medium	medium
BUD – POSITION OF TIP (Relative to Growth Ring)			
	slightly below	level	slightly below

BUD WIDTH (Excluding Wings)			
	narrow	narrow to medium	medium
BUD WING WIDTH			
	narrow to medium	medium-wide to wide	medium to medium-wide
LEAF SCAR PROMINENCE			
	medium to prominent	medium to prominent	medium
LEAF SCAR SLOPE			
	level to weakly oblique	level to weakly oblique	weakly oblique
LAMINA LENGTH (TVD Leaf) (m) LSD (P ≤ 0.01) = 0.21			
mean	1.39a	1.37a	1.40a
std deviation	0.19	0.09	0.22
	medium	medium	medium
LAMINA WIDTH (Longitudinal Midpoint) (mm) LSD (P ≤ 0.01) = 4.3			
mean	33.7a	40.9b	41.7b
std deviation	4.3	3.8	5.4
	very narrow to narrow	medium	medium
MIDRIB WIDTH (Longitudinal Midpoint) (mm) LSD (P ≤ 0.01) = 0.5			
mean	2.8a	3.8b	3.1a
std deviation	0.8	0.6	0.7
	very narrow to narrow	medium to wide	narrow to medium
LAMINA WIDTH/MIDRIB WIDTH RATIO			
	medium	low	medium to high
LAMINA ATTITUDE			
	curve near tip	curve near middle	curve near tip
LEAF SHEATH – ADHERENCE TO CULM			
	weak	medium	weak to medium
LENGTH OF TVD LEAF SHEATH (cm) LSD (P ≤ 0.01) = 1.8			
mean	26.0a	33.2b	31.9b
std deviation	3.0	2.6	2.8
	very short	long to very long	medium to long
HAIR GROUP 57 – OCCURRENCE			
	very sparse	sparse	medium
HAIR GROUP 57 – LENGTH			
	very short	short to short-medium	short
LIGULE SHAPE			
	deltoid	cresentiform to weakly deltoid	deltoid to crescentiform

LIGULE HEIGHT			
	medium	medium to wide	medium
HAIR GROUP 61 – DENSITY/OCCURRENCE			
	medium	medium to medium-dense	sparse to medium
AURICLE -PROMINENCE (Second Fully Unfurled Leaf)			
	inconspicuous to medium	medium	medium
AURICLE SHAPE – ULP			
	dentoid	lanceolate	lanceolate
AURICLE SIZE – ULP			
	very small to small	small to small-medium	very small-small to small
FLOWERING			
	sparse	sparse	medium

Means followed by the same letter are not significantly different at P ≤ 0.01, Duncan's Multiple Range Test.

TEA TREE
Leptospermum hybrid

'Rudolph'

Application No: 97/345Accepted: 31 Dec 1997.
Applicant: **Peter James Ollerenshaw,** Bungendore, NSW.

Characteristics (Table 50, Figure 25) Plant: habit dense upright, height medium, Stem: anthocyanin present, internodes short. Leaf: long, narrow (average 20.09 x 3.95 mm), mature leaf colour green (RHS 147A), young leaf colour greyed-purple (RHS 187A), shape narrow elliptic with acute apex and cuneate base, Flower: late, pedicel very short, diameter large, petals long and wide (average 8.39 x 8.79 mm), colour red-purple (RHS 61B). Gynoecium: medium, (average 8.74mm), colour yellow-green (RHS 146A). Style: yellow-green (RHS 146A), filaments white. Calyx: exposed with most points visible between petals, colour yellow-green (RHS 146D), Capsule: fertile. (Note: all RHS colour chart numbers refer to 1986 edition.)

Origin and Breeding Controlled pollination: seed parent *Leptospermum spectabile* x pollen parent *Leptospermum morrisonii* (purple foliage selection). The seed parent was characterised by sparse red-purple flowers. The pollen parent was characterised by purple leaves and dense white flowers. Hybridisation took place in Bywong, NSW, in Dec 1991. Selection criteria: from this cross, seedling number L27Q (later known as 'Rudolph') was chosen in 1995 on the basis of flower density and colour. Propagation: a number mature stock plants were generated from this seedling by stem cuttings were found to be uniform and stable. 'Rudolph' will be commercially propagated by vegetative cuttings from the stock plants. Breeder: Peter Ollerenshaw, Bywong, NSW Australia.

Choice of Comparators The two comparators, 'Aphrodite'(Φ) and 'Rhiannon'(Φ), were chosen because these are similar varieties of common knowledge that have a common parent (*L. spectabile*) and both have red-purple flowers. The male parent *L. morrisonii* was initially considered as a comparator but later rejected because it is easily differentiated by its white flowers. No other similar varieties of common knowledge have been identified.

Comparative Trial Comparators: 'Aphrodite'(Φ) and 'Rhiannon'(Φ). Location: Bywong Nursery, Bungendore, NSW, autumn 1998 – spring, 1999. Conditions: trial conducted in a polyhouse, plants propagated from rooted stem cuttings planted into 210mm pots filed with potting mix (pine bark base), nutrition maintained with slow release fertilisers, pest and disease treatments not required. Trial design: ten pots of each variety arranged in a completely randomised design. Measurements: from ten plants at random. One sample per plant.

Prior Applications and Sales
First Australian sale in Oct 1998. No prior sale overseas.

Description: **Robert L. Dunstone,** Curtin, ACT.

Table 50 *Leptospermum* varieties

	'Rudolph'	*'Aphrodite'Φ	*'Rhiannon'Φ
PLANT			
habit	upright shrub	upright shrub	upright shrub
LEAF LENGTH (mm)			
mean	20.1	19.2	12.2
std deviation	1.75	2.23	1.43
LSD/sig	2.6	ns	P≤0.01
LEAF WIDTH (mm)			
mean	4.0	4.4	5.0
std deviation	0.23	0.41	0.69
LSD/sig	0.6	ns	P≤0.01
LEAF SHAPE			
blade	narrow elliptic	elliptic	elliptic
apex	acute	acute	acuminate
base	cuneate	cuneate	cuneate
MATURE LEAF COLOUR(RHS, 1986)	147A	146B	147B
NEW LEAF COLOUR(RHS, 1986)	187A top surface	146B	146C with red margin
GYNOECIUM DIAMETER (mm)			
mean	8.7	7.9	9.6
std deviation	0.58	0.81	0.72
LSD/sig	0.7	P≤0.01	P≤0.01
PETAL COLOUR (RHS, 1986)	61B	63A	78A
GYNOECIUM COLOUR (RHS, 1986)	146A	146C	144A
STIGMA, STYLE COLOUR (RHS, 1986)	146A	146C	144A

FILAMENTS	white	white	white
CALYX COLOUR (RHS, 1986)	146D	145D	145C
CALYX EXPOSURE	most points visible	most points visible	points rarely visible
FLOWERING TIME	late	mid season	mid season

WHEAT
Triticum aestivum

'Dennis'

Application No: 99/267 Accepted: 19 Nov 1999.
Applicant: **CSIRO Plant Industry,** Canberra, ACT and **Grains Research and Development Corporation,** Barton, ACT.

Characteristics (Table 51, Figure 58) Plant: semi-erect, height moderately short (90cm), medium flowering and maturing winter wheat. Stem: little pith present. Leaf: sheath slightly glaucous, flag leaf long and weakly glaucous, width narrow, Ear: not glaucous, parallel sided, colour white, short, moderate density, scurs at tip moderate length (19.4mm), lower glume shoulder width narrow and sloping, beak medium length, and straight, lower lemma beak slightly curved. Grain: white. Disease Resistance: resistance to stem rust is provided by the *Sr24* and *Sr9g* genes, which distinguishes it from 'Brennan' which carries the *Sr2* gene. Season: winter wheat, responding to vernalisation and photoperiod.

Origin and Breeding Controlled pollination: seed parent 'Brock' x pollen parent 'Hartog'/'Sunco' in a planned breeding program in Canberra in 1985. The resulting F_1 was backcrossed to 'Brock' to recover the winter wheat characteristics. The female parent is rust susceptible and red grained. The pollen parents are spring wheat varieties. Selection criteria: 'Dennis' is the culmination of a selection program for winter habit, rust resistance, early maturity, good recovery from grazing and high yield of white grain. The variety has been stable during five generations of yield trials. Propagation: by seed. Breeder: Dr Jim Davidson, CSIRO Plant Industry, Canberra, ACT.

Choice of Comparators 'Brennan'$^{\Phi}$ was selected as a comparator because it is a white-grained winter wheat with scurs on the tips of the ears. Although the scurs are longer in 'Dennis' than in 'Brennan'$^{\Phi}$, they are much shorter than the awns on other white grained winter wheats except 'Isis'. 'Isis' was excluded from the comparative trial because it can be distinguished from 'Dennis' on height, (131 cm in 'Isis' and 87 cm in 'Dennis') flowering time (162 days to flower for 'Isis' and 158 days for 'Dennis' from a 3 June sowing), and 'Isis' is much more susceptible to rust than is 'Dennis'. Parents were excluded because the female parent is red-grained and susceptible to rust, and the male parents are spring wheats.

Comparative Trial Comparator: 'Brennan'$^{\Phi}$. Location: CSIRO Ginninderra Research Station, Canberra, ACT. Seeds were sown on 10 Mar 1999. Conditions: plants were raised in open field plots under dryland condition. Trial design: plots (10x2 m^2) arranged in a randomised complete block with four replicates. Measurements: taken from 10 random plants from two replicates.

Prior Applications and Sales nil.

Description: **Dr Ross Downes, Innovative Plant Breeders**, Canberra, ACT.

Table 51 *Triticum* varieties

	'Dennis'	*'Brennan'$^{\Phi}$
TIME OF EAR EMERGENCE (DAYS AFTER SOWING)	227	223
TIME OF ANTHESIS (DAYS AFTER SOWING)	232	227
FLAG LEAF: GLAUCOSITY OF SHEATH	slight	moderate
EAR: GLAUCOSITY	minimal	moderate
PLANT LENGTH (cm)		
mean	90.2	103.7
std deviation	6.0	5.2
LSD/sig	4.0	P≤0.01
STRAW: PITH IN CROSS SECTION	thin	moderate
EAR: SPIKELET NUMBER		
mean	19.7	21.9
std deviation	1.4	2.0
LSD/sig	1.1	P≤0.01
EAR: LENGTH (mm)		
mean	80.2	90.3
std deviation	8.7	7.5
LSD/sig	6.4	P≤0.01
SCUR LENGTH (mm)		
mean	19.4	8.7
std deviation	6.7	3.3
LSD/sig	4.2	P≤0.01
APICAL RACHIS SEGMENT: HAIRINESS OF CONVEX SURFACE	strong	weak
LOWER GLUME: SHOULDER WIDTH	narrow	broad
LOWER GLUME: BEAK SHAPE	straight	curved
LOWER LEMMA: BEAK SHAPE	slight curve	moderate curve
GRAIN: COLOUR	white	white
SEASONAL TYPE	winter	winter

WHITE CLOVER
Trifolium repens

'Grasslands Bounty'

Application No: 98/080 Accepted: 1 Dec 1999.
Applicant: **New Zealand Pastoral Agriculture Research Institute Limited,** Hamilton, New Zealand.
Agent: **Mr. Peter Neilson, AgResearch Grasslands,** Bowna via Albury, NSW.

Description (Table 52, Figure 60) Plant: intermediate habit, medium green herbage plant with mid season maturity. Peduncles: short, mean 195mm. Petiole: medium long, mean length 87mm, mean thickness 1.41mm Leaf: medium length, mean 25.09mm and medium width, mean 20.6mm, predominantly elliptical. Leaves ~ 97% crescent marked, ~ 20% with anthocyanin leaf fleck. Flower: medium size with medium to low floret numbers, average ~90 per head. Florets: long, mean 11.43mm. Stolons: moderately thin, mean 2.43mm with mean internode length 29.23mm. Percentage of plants cyanophoric ~94%.

Origin and Breeding Polycross: originated from hybrids between medium to large leafed varieties, 'Major', 'Grasslands Huia' and 'Grasslands Pitau', re-selection plants crossed with small leafed South Island (New Zealand) or North Island (New Zealand) hill country ecotypes. 'Major' is a large leafed variety that was selected from 'Crau' for the absence of leaf marking. The F_1 lines were evaluated in the field and 33 superior genotypes selected. These were intercrossed and further screened as F_2 lines. A final selection of 14 parent genotypes was made and the plants polycrossed. The 14 parent lines were checked for flowering/seed yield potential. Two inferior lines were eliminated and representative plants of the remaining 12 parents were isolated to produce seed as GC54, which was later known as 'Grasslands Bounty'. Selection criteria: leaf size coupled with autumn growth. Propagation: by seed. Breeder: Dr. Keith Widdup, AgResearch, Lincoln, New Zealand.

Choice of Comparators 'Grasslands Huia', 'Grasslands Demand'Φ, 'Grasslands Prestige'Φ and 'Grasslands. Tahora'Φ were chosen as the most similar varieties of common knowledge on the basis of leaf size, plant growth habit and flowering pattern. Other comparators were included because these are also similar varieties of common knowledge. 'Major' was not included in the trial because of the absence of leaf markings.

Comparative Trial Comparators: 'Grasslands Huia', 'Grasslands Demand'Φ, 'Grasslands Prestige'Φ, 'Grasslands Tahora'Φ, 'Grasslands Pitau', 'Grasslands Sustain'Φ, 'Grasslands Challenge'Φ, 'Lebons' and 'Ladino'. Location: AgResearch Grasslands Research Centre, Palmerston North, New Zealand. Mar 1997 – Jan 1998. Conditions: seeds germinated in petri dishes and pricked into potting mix filled seed trays in glasshouse 17 – 19 Mar 1997. Trays transferred to open air hardening off prior to field trial planting on 9 Jun 1997. Trial design: block design of 10 randomised replicates of each variety represented by 10 spaced plants at 60cm spacing in each replicate. Replicates 1.2m apart. Measurements on about 100 plants of each variety.

Prior Applications and Sales

Country	Year	Status	Name Applied
New Zealand	1997	Granted	'Grasslands Bounty'
UK	1997	Applied	'Grasslands Bounty'

No prior sales.

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

Table 52 *Trifolium* varieties

	'Grasslands Bounty'	*'Grasslands Huia'	*'Grasslands Demand'Φ	*'Grasslands Prestige'Φ	*'Grasslands Tahora'Φ	*'Grasslands Pitau'	*'Grasslands Sustain'Φ	*'Grasslands Challenge'Φ	*'Lebons'	*'Ladino'
DAYS FROM FIRST (13/10/97) TO MEAN FLOWERING										
mean	29.2	29.3	29.3	29.8	31.6	32.6	29.9	29.6	34.6	29.9
std deviation	10.4	8.6	9.5	9.9	9.7	11.0	10.8	11.2	11.7	10.1
LSD/sig	3.8	ns	ns	ns	ns	ns	ns	ns	P≤0.01	ns
PLANT HEIGHT AT FLOWERING (cm)										
mean	33.1	27.2	26.5	25.9	19.5	38.8	34.6	33.7	28.8	23.2
std deviation	1.7	3.00	2.6	3.1	3.0	3.0	2.2	2.1	3.1	2.7
LSD/sig	2.9	P≤0.01	P≤0.01	P≤0.01	P≤0.01	P≤0.01	ns	ns	P≤0.01	P≤0.01
LEAFLET LENGTH (mm)										
mean	25.09	25.29	24.44	22.78	20.32	30.29	27.83	34.45	32.82	31.37
std deviation	5.30	4.87	4.26	4.64	4.19	5.21	5.52	6.22	5.75	5.83
LSD/sig	1.96	ns	ns	P≤0.01	P≤0.01	P≤0.01	P≤0.01	P≤0.01	P≤0.01	P≤0.01
LEAFLET WIDTH (mm)										
mean	20.59	20.53	20.11	18.47	16.39	23.80	21.92	27.51	24.32	24.71
std deviation	3.76	3.55	3.59	3.80	3.17	4.07	4.45	5.16	4.84	4.04
LSD/sig	1.54	ns	ns	P≤0.01	P≤0.01	P≤0.01	ns	P≤0.01	P≤0.01	P≤0.01
PETIOLE LENGTH (mm)										
mean	87.01	84.56	86.84	76.72	67.79	93.80	85.89	117.36	96.86	97.77

Table 52 continued

std deviation	26.25	23.56	26.21	21.89	21.47	27.84	29.63	32.51	30.87	29.14
LSD/sig	12.49	ns	ns	ns	P≤0.01	ns	ns	P≤0.01	ns	ns
PETIOLE THICKNESS (mm)										
mean	1.41	1.44	1.42	1.31	1.19	1.75	1.56	2.05	1.87	1.81
std deviation	0.28	0.21	0.25	0.24	0.22	0.41	0.26	0.37	0.37	0.27
LSD/sig	0.11	ns	ns	ns	P≤0.01	P≤0.01	P≤0.01	P≤0.01	P≤0.01	P≤0.01
STOLON THICKNESS (mm)										
mean	2.42	2.50	2.49	2.21	2.13	2.96	2.78	3.23	3.24	3.52
std deviation	0.35	0.31	0.33	0.34	0.28	0.37	0.37	0.50	0.52	0.59
LSD/sig	0.15	ns	ns	P≤0.01	P≤0.01	P≤0.01	P≤0.01	P≤0.01	P≤0.01	P≤0.01
INTERNODE LENGTH (mm)										
mean	29.23	31.94	30.18	28.59	28.30	32.82	32.24	32.51	33.54	28.43
std deviation	9.83	8.68	7.75	8.96	8.24	9.91	8.00	9.54	7.94	9.05
LSD/sig	3.06	ns	ns	ns	ns	P≤0.01	ns	P≤0.01	P≤0.01	ns
PEDUNCLE LENGTH (mm)										
mean	195.0	199.6	217.1	185.5	183.1	218.0	211.6	228.0	236.4	206.6
std deviation	43.95	36.91	44.79	41.32	40.31	43.76	46.38	49.74	36.07	46.36
LSD/sig	20.37	ns	P≤0.01	ns	ns	P≤0.01	ns	P≤0.01	P≤0.01	ns
PEDUNCLE THICKNESS (mm)										
mean	2.01	1.66	2.12	1.60	1.82	2.33	1.92	2.33	2.65	2.03
std deviation	0.25	0.26	0.26	0.23	0.23	0.30	0.28	0.34	0.33	0.32
LSD/sig	0.15	P≤0.01	ns	P≤0.01	P≤0.01	P≤0.01	ns	P≤0.01	P≤0.01	ns
FLORET LENGTH (mm)										
mean	11.43	10.63	10.76	10.24	10.63	11.24	11.16	11.54	12.40	10.83
std deviation	0.79	0.60	0.75	0.61	0.66	0.75	0.73	0.64	0.84	0.75
LSD/sig	0.34	P≤0.01	P≤0.01	P≤0.01	P≤0.01	ns	ns	ns	P≤0.01	P≤0.01
PERCENTAGE OF PLANTS WITH LEAF MARKS										
	91	93	94	92	92	91	98	99	79	87
PERCENTAGE OF CYANOGENIC PLANTS										
	94	54	86	62	74	94	44	88	88	0

ZONAL GERANIUM
Pelargonium xhortorum

'BFP-721 Bright Lilac' syn **Designer Bright Lilac**

Application No: 98 / 013 Accepted: 31 Mar 1998.
Applicant: **Ball FloraPlant – Division of Ball Horticultural Company,** Illinois, USA.
Agent: **A. J. Newport and Son Pty Ltd,** Winmalee, NSW.

Characteristics (Table 53, Figure 12) Plant: height of foliage tall (181mm), width broad (327mm), number of inflorescences medium to many (4.7), colour of stem green. Leaf: length long (67mm), width broad (115mm), shape type 3, degree of lobing weak to medium, base open, upper colour medium, variegation absent, zone on upper side absent, margin incisions crenate, depth of incisions weak, margin undulation weak to medium. Inflorescence: peduncle length medium to long (203mm), diameter small (91mm), longest pedicel length short (3.2mm). Pedicel: colour of mid third green and light red, swelling absent. Flower: bud shape elliptic, type double, number of petals few (7.7) Petal: margin entire. Upper petal: width medium to broad (23mm), upperside margin colour RHS 67B, upperside middle colour RHS 67B, lowerside colour ca RHS 68B, markings present, marking type stripe, marking conspicuousness medium. Lower petal: upperside margin colour RHS 67B, upperside middle colour RHS 67B, lowerside colour RHS 68B, markings present, marking conspicuousness weak. Inner Petal: upperside colour RHS 67B, markings present. Time of beginning of flowering medium to late. (Note: all RHS colour chart numbers refer to 1986 edition.)

Origin and Breeding Controlled pollination: Seed parent 'Laura' x pollen parent 'Fox'. The seed parent is characterised by semi double lavender coloured flowers and medium green foliage. The pollen parent is characterised by semi double purple flowers. Hybridisation took place at Arroyo Grande, California, USA. From this cross, a seedling designated 'BFP-721 Bright Lilac' was chosen on the basis of plant habit and foliage characters. Selection criteria: medium green foliage, medium growth habit, self-branching. Propagation: vegetatively propagated by cutting over more than eight generations and is uniform and stable. Breeder: Dr. S. Trees, Arroyo Grande, USA.

Choice of Comparators 'Sassa'Φ and 'Lilac' were initially considered for the comparative trial, as these are similar varieties of common knowledge. 'Sassa'Φ was excluded from the trial on the basis of leaf type, presence of zonation

on leaves and type of margin incisions. 'Lilac' was used as a comparator because of similar leaf and flower characters. The seed parent 'Laura' was not used in the trial because of flower type and smaller inflorescences with fewer flowers than 'BFP-721 Bright Lilac'. The pollen parent 'Fox' was excluded from the trial on the basis of flower type and flower colour.

Comparative Trial Comparator: 'Lilac'. Location: A.J.Newport and son Pty Ltd, Winmalee, Jul – Nov 1999. Conditions: trials conducted in a polyhouse, plants propagated from cutting, rooted cuttings planted in 150mm pots containing commercial media, dripper irrigated, spacing at 40cm, nutrition, pest and disease treatment as required. Trial design: twenty plants of each variety arranged in a completely randomised design. Measurements: taken from all trial plants, one sample per plant.

Prior Applications and Sales

Country	Year	Current Status	Name Applied
USA	1994	Granted (PP 9217)	'BFP-721 Bright Lilac'
The Netherlands	1994	Refused	'Designer Bright Lilac'

First sold in USA in 1994. First Australian sale in 1997.

Description: **Melissa Hunt, A.J.Newport and Son Pty Ltd**, Winmalee, NSW.

Table 53 *Pelargonium* varieties

	'BFP-721 Bright Lilac'	***'Lilac'**
PLANT: HEIGHT OF FOLIAGE (mm)		
mean	181	141
std deviation	21	18
LSD/sig	20	P≤0.01
PLANT: WIDTH (EXCLUDING INFLORESCENCES) (mm)		
mean	327	270
std deviation	34	39
LSD/sig	34	P≤0.01
LEAF: LENGTH (mm)		
mean	67	59
std deviation	4	4
LSD/sig	4	P≤0.01
LEAF: WIDTH (mm)		
mean	115	104
std deviation	7	9
LSD/sig	7	P≤0.01
LEAF:		
shape	type 3	type 3
degree of lobing	weak to medium	weak to medium
base	open	open to closed
upper colour	medium	medium
variegation	absent	absent
zone on upper side	absent	absent
type of incisions of margin	crenate	crenate
depth of incisions	weak	weak
margin undulation	weak to medium	weak to medium
INFLORESCENCE: LENGTH OF PEDUNCLE (mm)		
mean	203	175
std deviation	26	19
LSD/sig	18	P≤0.01
INFLORESCENCE: DIAMETER (mm)		
mean	91	108
std deviation	10	15
LSD/sig	10	P≤0.01
INFLORESCENCE: LENGTH OF LONGEST PEDICEL (mm)		
mean	3.2	3.9
std deviation	0.6	0.4
LSD/sig	0.4	P≤0.01
FLOWER: NUMBER OF PETALS		
mean	7.7	9.1
std deviation	1.2	1.2
LSD/sig	1.1	P≤0.01
UPPER PETAL: COLOUR (RHS, 1986)		
upper side margin	67B	67B
upper side middle	67B	67B
lower side	68B	68A
LOWER PETAL: COLOUR (RHS, 1986)		
upper side margin	67B	67B
upper side middle	67B	67B
lower side	68B	68A
TIME OF BEGINNING OF FLOWERING	medium to late	late

'BFP-788 Bright Scarlet' syn Designer Bright Scarlet

Application No: 98/012 Accepted: 31 Mar 1998.
Applicant: **Ball FloraPlant – Division of Ball Horticultural Company,** Illinois, USA.
Agent: **A. J. Newport and Son Pty Ltd,** Winmalee, NSW.

Characteristics (Table 54, Figure 13) Plant: height of foliage tall (184mm), width broad (305mm), number of inflorescence many (5.8), colour of stem green. Leaf: length medium to long (65mm), width medium (107mm), shape type 3, degree of lobing weak to medium, base open to closed, upper colour medium, variegation absent, zone on upper side absent or present, zone conspicuousness absent or very weak, margin incisions crenate, depth of incisions weak, margin undulation medium to strong. Inflorescence: peduncle length long to very long (218mm), diameter large (121mm), longest pedicel length medium (3.9mm). Pedicel: colour of mid third green, swelling absent. Flower: bud shape elliptic, type double, number of petals medium (9.1). Petal: margin entire. Upper petal: width very broad (24.7mm), upperside margin colour RHS ca 44A, upperside middle colour RHS ca 44A, lowerside colour RHS ca 33A, markings absent. Lower petal: upperside margin colour RHS ca 44A, upperside middle colour RHS ca 44A, lowerside colour RHS ca 33A, markings absent. Inner petal: upperside colour RHS ca 44A, markings absent, Time of beginning of flowering medium to late. (Note: all RHS colour chart numbers refer to 1986 edition.)

Origin and Breeding Controlled pollination: seed parent 1908-47 x pollen parent PAS 231-1-2. The seed parent was

characterised by single scarlet flowers and dark green foliage. The pollen parent was characterised by semi-double dark red flowers and medium green foliage. Hybridisation took place at Arroyo Grande, California, USA. From this cross, a seedling designated 'BFP-788 Bright Scarlet' was chosen on the basis of plant habit and foliage characters. Selection criteria: medium green foliage, medium growth habit, self-branching. Propagation: vegetatively propagated by cutting over more than eight generations and is uniform and stable. Breeder: Dr. S. Trees, Arroyo Grande, USA.

Choice of Comparators 'Alex', 'Pendaco'(ф), 'Dark Red Irene', 'Starburst Red' and 'Scarlet' were initially considered for the comparative trial, as these are similar varieties of common knowledge. 'Alex' and 'Dark Red Irene' were excluded from the trial because they have leaf shape type 1. 'Pendaco'(ф) was excluded from the trial because it has medium to strong zone conspicuousness and dark red pedicel colour (mid third). 'Scarlet' was chosen because plant habit and flower colour characters were similar to 'BFP-788 Bright Scarlet' and 'Starburst Red' was chosen because the primary petal colour is similar to that of 'BFP-788 Bright Scarlet'. The seed parent 1908-47 was excluded from the trial on the basis of flower type and foliage colour. The pollen parent PAS 231-1-2 was excluded from the trial on the basis of flower colour.

Comparative Trial Comparator: 'Starburst Red' and 'Scarlet'. Location: A.J.Newport and Son Pty Ltd, Winmalee, Jul – Nov 1999. Conditions: trials conducted in a polyhouse, plants propagated from cutting, rooted cuttings planted in 150mm pots containing commercial media, dripper irrigated, spacing at 40cm, nutrition, pest and disease treatment as required. Trial design: twenty plants of each variety arranged in a completely randomised design. Measurements: taken from all trial plants, one sample per plant.

Prior Applications and Sales

Country	Year	Current Status	Name Applied
USA	1995	Granted (PP 9551)	'BFP-788 Bright Scarlet'
Europe	1995	Granted	'Designer Bright Scarlet'

First sold in USA in 1995. First Australian sale in 1998.

Description: **Melissa Hunt, A.J.Newport and Son Pty Ltd**, Winmalee, NSW.

Table 54 *Pelargonium* varieties

	'BFP-788 Bright Scarlet'	'Starburst Red'	*'Scarlet'
PLANT: WIDTH (EXCLUDING INFLORESCENCES) (mm) LSD (P≤0.01)=34			
mean	305de	339ef	348f
std deviation	28	41	52
PLANT: NUMBER OF INFLORESCENCES LSD (P≤0.01)=1.2			
mean	5.8e	3.5bc	5.8e
std deviation	1.4	1.4	1.6
LEAF: LENGTH (mm) LSD (P≤0.01)=4			
mean	65efg	74h	62def
std deviation	4	6	6
LEAF: WIDTH (mm) LSD (P≤0.01)=7			
mean	107cd	127f	107cd
std deviation	5	12	9
LEAF:			
shape	type 3	type 3	type 3
degree of lobing	weak to medium	weak	weak to medium
base	open to closed	open	open to closed
upper colour	medium	medium	medium
variegation	absent	absent	absent
zone on upper side	absent to present	present	present
zone conspicuousness	absent to very weak	medium	medium to strong
type of incisions of margin	crenate	crenate	bicrenate
depth of incisions	weak	weak	weak
margin undulation	medium to strong	weak to medium	weak
INFLORESCENCE: LENGTH OF PEDUNCLE (mm) LSD (P≤0.01)=18			
mean	218def	238g	236fg
std deviation	15	20	20
INFLORESCENCE: DIAMETER (mm) LSD (P≤0.01)=10			
mean	121e	116de	109cd
std deviation	11	13	12
PEDICEL			
colour of mid third	green	dark red	green
FLOWER			
bud shape	elliptic	narrow elliptic	elliptic to elliptic
type	double	single	double
overlapping of petal	n/a	present	n/a
FLOWER: NUMBER OF PETALS LSD (P≤0.01)=1.1			
mean	9.1bc	n/a	7.7a
std deviation	2	n/a	1
UPPER PETAL: WIDTH (mm) LSD (P≤0.01)=1.7			
mean	24.7f	19.5a	23.2ef
std deviation	2.3	1.2	2.5
UPPER PETAL: COLOUR (RHS, 1986)			
upper side margin	ca 44A	46C and 65A and 52D and 62D	ca 44A
upper side middle	ca 44A	46C and 65A and 52D and 62D	ca 44B

lower side	ca 33A	43C and 65D and 54D	33A
LOWER PETAL: COLOUR (RHS, 1986)			
upper side margin	ca 44A	46C and 65A and 52D and 62D	ca 44A
upper side middle	ca 44A	46C and 65A and 52D and 62D	ca 44B
lower side	ca 33A	43C and 65D and 54D	33A
INNER PETAL: COLOUR (RHS, 1986)			
upper side colour	ca 44A	n/a	ca 44A
markings	absent	n/a	absent
TIME OF BEGINNING OF FLOWERING	medium to late	late	early

Note: mean values followed by the same letter are not significantly different at P≤0.01 according to Duncan's Multiple Range Test.

'BFP-838 Dark Red' syn Designer Dark Red

Application No: 98/008 Accepted: 31 Mar 1998.
Applicant: **Ball FloraPlant – Division of Ball Horticultural Company,** Illinois, USA.
Agent: **A. J. Newport and Son Pty Ltd,** Winmalee, NSW.

Characteristics (Table 55, Figure 14) Plant: height of foliage medium (157mm), width broad (326mm), number of inflorescences medium to many (5.4), colour of stem green. Leaf: length medium (66mm), width medium to broad (114mm), shape type 3, degree of lobing medium, base closed to overlapping, upper colour medium, variegation absent, zone on upper side present, zone conspicuousness weak to medium, margin incisions crenate, depth of incisions weak, margin undulation weak to medium. Inflorescence: peduncle length medium to long (208mm), diameter medium (105mm), longest pedicel length short to medium (3.5mm). Pedicel: colour of mid third light red, swelling absent. Flower: bud shape elliptic, type double. Number of petals many (13.0). Petal: margin entire. Upper petal: width narrow to medium (21.4mm), upperside margin colour RHS 45A-B, upperside middle colour ca RHS 45B, lowerside colour ca RHS 45B, markings absent. Lower petal: upperside margin colour RHS 57A, upperside middle colour RHS 57A, lowerside colour RHS 45B, markings absent. Inner Petal: upperside colour RHS 45A, markings absent. Time of beginning of flowering early to medium. (Note: all RHS colour chart numbers refer to 1986 edition.)

Origin and Breeding Controlled pollination: seed parent G4111-4 x pollen parent 'Fox'. The seed and pollen parents were characterised by compact plant habit, medium foliage colour and semi double flowers. Hybridisation took place at Arroyo Grande, California, USA. From this cross, a seedling designated 'BFP-838 Dark Red' was chosen on the basis of plant habit and foliage characters. Selection criteria: medium green foliage, medium growth habit, self-branching. Propagation: vegetatively propagated by cutting over more than eight generations and is uniform and stable. Breeder: Dr. S. Trees, Arroyo Grande, USA.

Choice of Comparators 'Alex', 'Pendaco'(ϕ), 'Dark Red Irene' and 'Sassy Dark Red'(ϕ) were initially considered for the comparative trial as these are similar varieties of common knowledge. 'Alex' and 'Dark Red Irene' were excluded from the trial on the basis of leaf shape type and type of incisions on leaf margins. 'Pendaco'(ϕ) was excluded from the trial on the basis of the type of incisions on leaf margins and upperside petal colours. 'Sassy Dark Red'(ϕ) was chosen for similar flower colour and plant habit characters. 'BFP-838 Dark Red' is clearly distinguishable from its seed parent G4111-4 and pollen parent 'Fox' on the basis of flower type and petal colours.

Comparative Trial Comparator: 'Sassy Dark Red'(ϕ). Location: A.J.Newport and Son Pty Ltd, Winmalee, Jul – Nov 1999. Conditions: trials conducted in a polyhouse, plants propagated from cutting, rooted cuttings planted in 150mm pots containing commercial media, dripper irrigated, spacing at 40cm, nutrition, pest and disease treatment as required. Trial design: twenty plants of each variety arranged in a completely randomised design. Measurements taken from all trial plants, one sample per plant.

Prior Applications and Sales

Country	Year	Current Status	Varietal Name
USA	1995	Granted (PP 9554)	'BFP-838 Dark Red'
Germany	1995	Granted	'Designer Dark Red'

First sold in USA in 1995. First Australian sale in 1997.

Description: **Melissa Hunt, A.J.Newport and Son Pty Ltd**, Winmalee, NSW.

Table 55 *Pelargonium* varieties

	'BFP-838 Dark Red'	*'Sassy Dark Red'ϕ
PLANT: NUMBER OF INFLORESCENCES		
mean	5.4	3.8
std deviation	2.0	1.3
LSD/sig	1.2	P≤0.01
LEAF: LENGTH (mm)		
mean	66	61
std deviation	4	4
LSD/sig	4	P≤0.01
LEAF: WIDTH (mm)		
mean	114	106
std deviation	8	7
LSD/sig	7	P≤0.01
LEAF:		
shape	type 3	type3
degree of lobing	medium	weak to medium
base	closed to overlapping	closed to partly overlapping
upper colour	medium	dark
variegation	absent	absent
zone on upper side	present	present

zone conspicuousness	weak to medium	medium to strong
type of incisions of margin	crenate	crenate
depth of incisions	weak	weak
margin undulation	weak to medium	medium
INFLORESECENCE: LENGTH OF LONGEST PEDICEL (mm)		
mean	3.5	3.2
std deviation	0.4	0.4
LSD/sig	18	ns
FLOWER: NUMBER OF PETALS		
mean	13.0	9.8
std deviation	1.6	0.8
LSD/sig	1.1	P≤0.01
UPPER PETAL: WIDTH (mm)		
mean	21.4	23.8
std deviation	1.5	3.2
LSD/sig	1.7	P≤0.01
UPPER PETAL: COLOUR (RHS, 1986)		
upper side margin	45A-B	45B
upper side middle	ca 45B	ca 45B
lower side	ca 45B	46C
LOWER PETAL: COLOUR (RHS, 1986)		
upper side margin	darker than 57A	45B
upper side middle	darker than 57A	57A
lower side	45B	46C
INNER PETAL: COLOUR (RHS, 1986)		
upper side colour	45A	ca 45B-46B
markings	absent	absent
TIME OF BEGINNING OF FLOWERING		
	early to medium	early to medium

'Pink Heart' syn **Showcase Pink Heart**

Application No: 98/011 Accepted: 31 Mar 1998.
Applicant: **Ball FloraPlant – Division of Ball Horticultural Company,** Illinois, USA.
Agent: **A. J. Newport and Son Pty Ltd,** Winmalee, NSW.

Characteristics (Table 56, Figure 15) Plant: height of foliage short (123mm), width very narrow (205mm), number of inflorescences medium (4.1), colour of stem green. Leaf: length short (46mm), width very narrow (76mm), shape type 2, degree of lobing weak to medium, base open, upper colour dark, variegation absent, zone on upper side absent, margin incisions biserrate, depth of incisions weak to medium, margin undulation medium to strong. Inflorescence: peduncle length very short (146mm), diameter large (116mm), longest pedicel length medium (4.4mm). Pedicel: colour of mid third dark red, swelling present. Flower: bud shape elliptic, type single, overlapping of petals present. Petal: margin entire. Upper petal: width narrow (19.9mm), upperside margin colour RHS 74D, upperside middle colour RHS ca 57A, lowerside colour RHS 65A, markings present, marking type macule and stripe, marking conspicuousness strong. Lower petal: upperside margin colour RHS 74D, upperside middle colour RHS ca 57A, lowerside colour RHS 65A, markings present, marking conspicuousness strong. Time of beginning of flowering very early. (Note: all RHS colour chart numbers refer to 1986 edition.)

Origin and Breeding Controlled pollination: seed parent 9380E x pollen parent 'Rio'. The seed parent was characterised by compact habit, medium foliage colour and single pink flowers. The pollen parent was characterised by dark foliage and single pink flowers. Hybridisation took place at Arroyo Grande, California, USA. From this cross, a seedling designated 'Pink Heart' was chosen on the basis of plant habit and foliage characters. Selection criteria: medium green foliage, medium growth habit, self-branching. Propagation: vegetatively propagated by cutting over more than eight generations and is uniform and stable. Breeder: Dr. S. Trees, Arroyo Grande, USA.

Choice of Comparators 'Rio', 'Jana'(Φ), 'Pensid'(Φ) and 'Rosen Perle' were initially considered for the comparative trial, as these are similar varieties of common knowledge. 'Pensid'(Φ) and 'Jana' were excluded from the trial because they both have semi double flowers. 'Rosen Perle' was excluded on the basis of leaf colour and leaf shape type. Pollen parent 'Rio' was used as a comparator because it has similar foliage and flower characters. Seed parent 9380E was excluded from the trial on the basis of light to medium foliage colour.

Comparative Trial Comparator: 'Rio'. Location: A.J.Newport and Son Pty Ltd, Winmalee, Jul – Nov 1999. Conditions: trials conducted in a polyhouse, plants propagated from cutting, rooted cuttings planted in 150mm pots containing commercial media, dripper irrigated, spacing at 40cm, nutrition, pest and disease treatment as required. Trial design: twenty plants of each variety arranged in a completely randomised design. Measurements: taken from all trial plants, one sample per plant.

Prior Applications and Sales

Country	Year	Current Status	Varietal Name
USA	1994	Granted (PP9218)	'Pink Heart'
The Netherlands	1994	Surrendered	'Showcase Pink Heart'

First sold in USA in 1994. First Australian sale in 1997.

Description: **Melissa Hunt, A.J.Newport and Son Pty Ltd**, Winmalee, NSW.

Table 56 *Pelargonium* varieties

	'Pink Heart'	***'Rio'**
PLANT: HEIGHT OF FOLIAGE (mm)		
mean	123	160
std deviation	16	22
LSD/sig	20	P≤0.01
PLANT: WIDTH (EXCLUDING INFLORESCENCES) (mm)		
mean	205	243
std deviation	22	31
LSD/sig	34	P≤0.01
PLANT: NUMBER OF INFLORESCENCES		
mean	4.1	1.9
std deviation	1.2	1.3
LSD/sig	1.2	P≤0.01

LEAF: LENGTH (mm)		
mean	46	55
std deviation	4	7
LSD/sig	4	P≤0.01
LEAF: WIDTH (mm)		
mean	76	92
std deviation	5	11
LSD/sig	7	P≤0.01
LEAF		
shape	type 2	type 2
degree of lobing	weak to medium	medium
base	open	open
upper colour	dark	dark
variegation	absent	absent
zone on upper side	absent	absent
type of incisions of margin		
	biserrate	biserrate
depth of incisions	weak to medium	medium
margin undulation	medium to strong	medium
INFLORESECENCE: LENGTH OF LONGEST PEDICEL (mm)		
mean	4.4	4.9
std deviation	0.6	0.6
LSD/sig	0.4	P≤0.01
UPPER PETAL: COLOUR (RHS, 1986)		
upper side margin	74D	73B
upper side middle	ca 57A	ca 57A
lower side	65A	65A
LOWER PETAL: COLOUR (RHS, 1986)		
upper side margin	74D	73B
upper side middle	ca 57A	ca 57A
lower side	65A	65A
TIME OF BEGINNING OF FLOWERING		
	very early	late

'Showcase Salmon'

Application No: 98/010 Accepted: 31 Mar 1998.
Applicant: **Ball FloraPlant – Division of Ball Horticultural Company,** Illinois, USA.
Agent: **A. J. Newport and Son Pty Ltd,** Winmalee, NSW.

Characteristics (Table 57, Figure 16) Plant: height of foliage medium (150mm), width narrow (258mm), number of inflorescences medium (3.3), colour of stem green. Leaf: length short (51mm), width narrow (87mm), shape type 1, degree of lobing weak to medium, base open to closed, upper colour dark, variegation absent, zone on upper side present, zone conspicuousness weak, margin incisions biserrate, depth of incisions weak, margin undulation medium. Inflorescence: peduncle length short (175mm), diameter medium to large (112mm), longest pedicel length medium (3.8mm). Pedicel: colour of mid third light red, swelling absent. Flower: bud shape elliptic, type double, number of petals medium (9.7). Petal: margin entire. Upper petal: width narrow to medium (20.6mm), upperside margin colour RHS 62B, upperside middle colour RHS 43C, lowerside colour RHS 54C, markings absent. Lower petal: upperside margin colour RHS 62B, upperside middle colour RHS 43C, lowerside colour RHS 54D, markings absent. Inner petal: upperside colour RHS 43C, markings absent. Time of beginning of flowering medium. (Note: all RHS colour chart numbers refer to 1986 edition.)

Origin and Breeding Controlled pollination: seed parent 'BSR-100B Dark Salmon' x pollen parent 907-4. The seed parent was characterised by dark salmon flower colour. The pollen parent was characterised by semi double flowers and a compact plant habit. Hybridisation took place at Arroyo Grande, California, USA. From this cross, a seedling designated 'BFP-445 Salmon' was chosen on the basis of plant habit and foliage characters. Selection criteria: medium green foliage, medium growth habit, self-branching. Propagation: vegetatively propagated by cutting over more than eight generations and is uniform and stable. Breeder: Dr. S. Trees, Arroyo Grande, USA.

Choice of Comparators 'Dagmar Murray', 'Berg Palais'(Φ), 'Eric Hoskins', 'Salmon Irene' and 'Salmon' were initially considered for the comparative trial, as these are similar varieties of common knowledge. 'Dagmar Murray' and 'Berg Palais'(Φ) have type 3 leaf shapes and were excluded from the trial on this basis. 'Eric Hoskins' has strong zonal conspicuousness and upper petal upperside colour of RHS 43D and was excluded from the trial on this basis. 'Salmon Irene' has medium green leaves and petal upperside colour of RHS 52B and was excluded from the trial on this basis. 'Salmon' was chosen for flower colour and plant habit characters. 'BFP-445 Salmon' is clearly distinguishable from its seed parent 'BSR-100B Dark Salmon' and pollen parent 907-4 on the basis of petal colour and they are excluded from the trial for this reason.

Comparative Trial Comparator: 'Salmon'. Location: A.J.Newport and Son Pty Ltd, Winmalee, Jul – Nov 1999. Conditions: trials conducted in a polyhouse, plants propagated from cutting, rooted cuttings planted in 150mm pots containing commercial media, dripper irrigated, spacing at 40cm, nutrition, pest and disease treatment as required. Trial design: twenty plants of each variety arranged in a completely randomised design. Measurements: taken from all trial plants, one sample per plant.

Prior Applications and Sales

Country	Year	Current Status	Name Applied
Germany	1993	Granted	'Showcase Salmon'
The Netherlands	1994	Granted	'Showcase Salmon'
USA	1994	Granted (PP9228)	'BFP-445 Salmon'

First sold in USA in 1994. First Australian sale in 1997.

Description: **Melissa Hunt, A.J.Newport and Son Pty Ltd**, Winmalee, NSW.

Table 57 *Pelargonium* varieties

	'Showcase Salmon'	*'Salmon'
PLANT: NUMBER OF INFLORESCENCES		
mean	3.3	5.2
std deviation	1.2	2.0
LSD/sig	1.2	P≤0.01
LEAF: WIDTH (mm)		
mean	87	92
std deviation	10	9
LSD/sig	7	P≤0.01
LEAF		
shape	type 1	type 2
degree of lobing	weak to medium	weak to medium
base	open to closed	open to wide open
upper colour	dark	medium
variegation	absent	absent
zone on upper side	present	present
zone conspicuousness	weak	medium to strong
type of incisions of margin	biserrate	bicrenate
depth of incisions	weak	weak
margin undulation	medium	medium to strong
INFLORESECENCE: LENGTH OF PEDUNCLE (mm)		
mean	175	224
std deviation	17	24
LSD/sig	18	P≤0.01
INFLORESECENCE: DIAMETER (mm) LSD (P≤0.01)=10		
mean	112	98
std deviation	16	11
LSD/sig	10	P≤0.01
INFLORESECENCE: LENGTH OF LONGEST PEDICEL (mm)		
mean	3.8	3.3
std deviation	0.4	0.4
LSD/sig	0.4	P≤0.01
FLOWER: NUMBER OF PETALS		
mean	9.7	8.0
std deviation	1.6	1.0
LSD/sig	1.1	P≤0.01
UPPER PETAL: WIDTH (mm)		
mean	20.6	22.5
std deviation	1.9	2.4
LSD/sig	1.7	P≤0.01
UPPER PETAL: COLOUR (RHS, 1986)		
upper side margin	62B	55C
upper side middle	43C	43C
lower side	54C	52C
LOWER PETAL: COLOUR (RHS, 1986)		
upper side margin	62B	55C
upper side middle	43C	43C
lower side	54D	52C
TIME OF BEGINNING OF FLOWERING	medium	early

'Starburst Red'

Application No: 98 / 009 Accepted: 31 Mar 1998.
Applicant: **Ball FloraPlant – Division of Ball Horticultural Company,** Illinois, USA.
Agent: **A. J. Newport and Son Pty Ltd,** Winmalee, NSW.

Characteristics (Table 54, Figure 13) Plant: height of foliage tall (191mm), width broad (339mm), number of inflorescence medium (3.5), colour of stem green. Leaf: length long (74mm), width broad (127mm), shape type 3, degree of lobing weak, base open, upper colour medium, variegation absent, zone on upper side present, zone conspicuousness medium, margin incisions crenate, depth of incisions weak, margin undulation weak to medium. Inflorescence: peduncle length very long (238mm), diameter medium (116mm), longest pedicel length medium (3.9mm). Pedicel: colour of mid third dark red, swelling absent. Flower: bud shape narrow elliptic to elliptic, type single, overlapping of petals present. Petal: margin entire. Upper petal: width narrow (19.5mm), colours in alternate stripes, primary upperside margin colours RHS 46C and 65A, secondary colours RHS 52D and 62D, primary upperside middle colours RHS 46C and 65A, secondary colours RHS 52D and 62D, primary lower side colours RHS 43C and 65D, secondary colour RHS 54D, markings absent. Lower petal: colours in alternate stripes, primary upperside margin colours RHS 46C and 65A, secondary colours RHS 52D and 62D, primary upperside middle colours RHS 46C and 65A, secondary colours RHS 52D and 62D, primary lower side colours RHS 43C and 65D, secondary colour RHS 54D, markings absent. Time of beginning of flowering late. (Note: all RHS colour chart numbers refer to 1986 edition.)

Origin and Breeding Controlled pollination: seed parent 4077-1 x pollen parent 'BSR-177 White'. The seed parent was characterised by single purple and white striped flowers. The pollen parent was characterised by semi-double white flowers. Hybridisation took place at Arroyo Grande, California, USA. From this cross, a seedling designated 'Starburst Red' was chosen on the basis of plant habit and foliage characters. Selection Criteria: medium green foliage, medium growth habit, self-branching. Propagation: vegetatively propagated by cutting over more than eight generations and is uniform and stable. Breeder: Dr. S. Trees, Arroyo Grande, USA.

Choice of Comparators 'Scarlet' and 'BFP-788 Bright Scarlet' were considered for the comparative trial as these are similar varieties of common knowledge. 'Scarlet' and 'BFP-788 Bright Scarlet' were chosen because the primary petal colour is similar to that of 'Starburst Red'. The seed parent 4077-1 was excluded from the trial on the basis of flower colour. The pollen parent 'BSR-177 White' was excluded from the trial on the basis of flower type and colour.

Comparative Trial Comparators: 'BFP-788 Bright Scarlet' and 'Scarlet'. Location: A.J.Newport and Son Pty Ltd, Winmalee, Jul – Nov 1999. Conditions: trials conducted in a polyhouse, plants propagated from cutting, rooted cuttings planted in 150mm pots containing commercial media, dripper irrigated, spacing at 40cm, nutrition, pest and

disease treatment as required. Trial design: twenty plants of each variety arranged in a completely randomised design. Measurements: taken from all trial plants, one sample per plant.

Prior Applications and Sales

Country	Year	Current Status	Name Applied
USA	1994	Granted (PP 9229)	'Starburst Red'

First sold in USA in 1994. First Australian sale in 1997.

Description: **Melissa Hunt, A.J.Newport and Son Pty Ltd**, Winmalee, NSW.

GRANTS

AGAPANTHUS
Agapanthus orientalis

'Black Pantha'Φ

Application No: 98/127 Grantee: **Agapan Growers Pty Ltd**, Belgrave, VIC.
Certificate No: 1363 Expiry Date: 20 December, 2019.

ALSTROEMERIA
Alstroemeria hybrid

'Ballet'Φ

Application No: 96/149 Grantee: **PhytoNova Holding bv**.
Certificate No: 1400 Expiry Date: 23 December, 2019.
Agent: **F & I Baguley Flower & Plant Growers**, Clayton South, VIC.

'Little Moon'Φ

Application No: 97/178 Grantee: **Koninklijke Van Zanten BV**.
Certificate No: 1371 Expiry Date: 20 December, 2019.
Agent: **F & I Baguley Flower & Plant Growers**, Clayton South, VIC.

'Stabelin'Φ syn **Belinda**Φ

Application No: 97/243 Grantee: **Van Staaveren BV**.
Certificate No: 1348 Expiry Date: 16 December, 2019.
Agent: **F & I Baguley Flower & Plant Growers**, Clayton South, VIC.

'Staprimil'Φ syn **Emily**Φ

Application No: 97/247 Grantee: **Van Staaveren BV**.
Certificate No: 1351 Expiry Date: 16 December, 2019.
Agent: **F & I Baguley Flower & Plant Growers**, Clayton South, VIC.

'Staprimon'Φ syn **Monica**Φ

Application No: 97/249 Grantee: **Van Staaveren BV**.
Certificate No: 1353 Expiry Date: 16 December, 2019.
Agent: **F & I Baguley Flower & Plant Growers**, Clayton South, VIC.

'Staprinag'Φ syn **Ragna**Φ

Application No: 97/252 Grantee: **Van Staaveren BV**.
Certificate No: 1349 Expiry Date: 16 December, 2019.
Agent: **F & I Baguley Flower & Plant Growers**, Clayton South, VIC.

'Staprisis'Φ syn **Sissi**Φ

Application No: 97/248 Grantee: **Van Staaveren BV**.
Certificate No: 1352 Expiry Date: 16 December, 2019.
Agent: **F & I Baguley Flower & Plant Growers**, Clayton South, VIC.

'Staprizsa'Φ syn **Zsa Zsa**Φ

Application No: 97/250 Grantee: **Van Staaveren BV**.

Certificate No: 1350 Expiry Date: 16 December, 2019.
Agent: **F & I Baguley Flower & Plant Growers**, Clayton South, VIC.

'Virginia'Φ

Application No: 96/148 Grantee: **Koninklijke Van Zanten BV**.
Certificate No: 1399 Expiry Date: 23 December, 2019.
Agent: **F & I Baguley Flower & Plant Growers**, Clayton South, VIC.

APPLE
Malus domestica

'Charlotte'Φ

Application No: 98/123 Grantee: **Horticulture Research International**.
Certificate No: 1346 Expiry Date: 16 December, 2024.
Agent: **Fleming's Nurseries & Associates Pty Ltd**, Monbulk, VIC.

'Obelisk'Φ syn **Flamenco**Φ

Application No: 98/122 Grantee: **Horticulture Research International**.
Certificate No: 1347 Expiry Date: 16 December, 2024.
Agent: **Fleming's Nurseries & Associates Pty Ltd**, Monbulk, VIC.

BARLEY
Hordeum vulgare

'Doolup'Φ

Application No: 98/141 Grantee: **Chief Executive Officer, Agriculture Western Australia,** South Perth, WA and **Grains Research and Development Corporation,** Barton, ACT.
Certificate No: 1380 Expiry Date: 21 December, 2019.

'Wyalong'Φ

Application No: 98/137 Grantee: **Department of Agriculture for and on behalf of the State of New South Wales,** Orange, NSW and **Grains Research and Development Corporation,** Barton, ACT.
Certificate No: 1354 Expiry Date: 16 December, 2019.

FIELD PEA
Pisum sativum

'Excell'Φ

Application No: 98/180 Grantee: **Agriculture Victoria Services Pty Ltd,** Attwood, VIC and **Grains Research and Development Corporation,** Barton, ACT.
Certificate No: 1377 Expiry Date: 21 December, 2019.

'Paravic'Φ

Application No: 98/181 Grantee: **Agriculture Victoria Services Pty Ltd,** Attwood, VIC and **Grains Research and Development Corporation,** Barton, ACT.
Certificate No: 1376 Expiry Date: 21 December, 2019.

FIG, WEEPING
Ficus benjamina

'Marole'Φ syn **Bushy King**Φ

Application No: 97/267 Grantee: **Gebr vd Knaap W**.
Certificate No: 1395 Expiry Date: 22 December, 2024.
Agent: **Futura Promotions Pty Ltd**, Crestmead, QLD.

'Mikkie'Φ syn **Bushy Prince**Φ

Application No: 97/266 Grantee: **Gebr vd Knaap W**.
Certificate No: 1397 Expiry Date: 22 December, 2024.
Agent: **Futura Promotions Pty Ltd**, Crestmead, QLD.

HOPS
Humulus lupulus

'Furano No. 18'Φ

Application No: 94/095 Grantee: **Sapporo Breweries Ltd**.
Certificate No: 1375 Expiry Date: 26 April, 2014.
Agent: **Phillips Ormonde & Fitzpatrick**, Melbourne, VIC.

LILY
Lilium hybrid

'Siberia'Φ

Application No: 94/230 Grantee: **Siberia Oriental BV**.
Certificate No: 1382 Expiry Date: 21 December, 2019.
Agent: **Kenny Lane Nurseries Pty Ltd**, Monbulk, VIC.

LUCERNE
Medicago sativa

'Grasslands Kaituna'Φ

Application No: 96/037 Grantee: **New Zealand Pastoral Agriculture Research Institute Limited** and **W-L Research Inc.**
Certificate No: 1398 Expiry Date: 22 December, 2019.
Agent: **AgResearch Grasslands**, Bowna Via Albury, NSW.

LUPIN, NARROW LEAFED
Lupinus angustifolius

'Moonah'Φ

Application No: 98/183 Grantee: **Agriculture Victoria Services Pty Ltd,** Attwood, VIC, **Chief Executive Officer, Agriculture Western Australia,** South Perth, WA and **Grains Research and Development Corporation,** Barton, ACT.
Certificate No: 1393 Expiry Date: 22 December, 2019.

'Tanjil'Φ

Application No: 98/140 Grantee: **Chief Executive Officer, Agriculture Western Australia,** South Perth, WA and **Grains Research and Development Corporation,** Barton, ACT.
Certificate No: 1392 Expiry Date: 22 December, 2019.

LUPIN, WHITE
Lupinus albus

'Ludet'ϕ
Application No: 97/143 Grantee: **Agri Obtentions SA**.
Certificate No: 1385 Expiry Date: 21 December, 2019.
Agent: **WestVic AgServices**, Horsham, VIC.

'Magna'ϕ
Application No: 98/205 Grantee: **CSIRO Plant Industry**, Canberra, ACT.
Certificate No: 1389 Expiry Date: 21 December, 2019.

'Minibean'ϕ
Application No: 98/204 Grantee: **CSIRO Plant Industry**, Canberra, ACT.
Certificate No: 1388 Expiry Date: 21 December, 2019.

MANGO
Mangifera indica

'Honey Gold'ϕ
Application No: 96/043 Grantee: **Burnett Asphalts Pty Ltd**, Rockhampton, QLD.
Certificate No: 1361 Expiry Date: 16 December, 2024.

MOCK ORANGE
Murraya paniculata var *ovatifoliata*

'Min-A-Min'ϕ
Application No: 98/109 Grantee: **Trevor John Garrad trading as Trevs Terrific Trees**, Woombye, QLD.
Certificate No: 1391 Expiry Date: 21 December, 2024.

NEW SOUTH WALES CHRISTMAS BUSH
Ceratopetalum gummiferum

'Vic 90-1'ϕ
Application No: 95/290 Grantee: **Vic John Ciccolella**, Oakville, NSW.
Certificate No: 1374 Expiry Date: 16 December, 2024.

OATS
Avena sativa

'Bass'ϕ
Application No: 98/041 Grantee: **University of Tasmania** and **The Crown in Right of the State of Tasmania through the Department of Primary Industries, Water and Environment**, Kings Meadows, TAS.
Certificate No: 1355 Expiry Date: 16 December, 2019.

'Heritage Lordship'ϕ
Application No: 98/049 Grantee: **New Zealand Institute for Crop & Food Research Ltd**.
Certificate No: 1384 Expiry Date: 21 December, 2019.
Agent: **Heritage Seeds Pty Ltd**, Howlong, NSW.

'Needilup'ϕ
Application No: 98/116 Grantee: **Chief Executive Officer, Agriculture Western Australia,** South Perth, WA, **Grains Research and Development Corporation,** Barton, ACT and **The Grain Pool of WA**, Perth, WA.
Certificate No: 1378 Expiry Date: 21 December, 2019.

PEACE LILY
Spathiphyllum hybrid

'Frederick'ϕ syn **SPFR**ϕ
Application No: 96/127 Grantee: **Daniel Cornelis**.
Certificate No: 1372 Expiry Date: 20 December, 2019.
Agent: **Burbank Biotechnology Pty Ltd**, Tuggerah, NSW.

POTATO
Solanum tuberosum

'Smith's Astra'ϕ
Application No: 98/025 Grantee: **The Smith's Snackfood Company Limited**.
Certificate No: 1369 Expiry Date: 20 December, 2019.
Agent: **Agriculture Victoria Services Pty Ltd**, Attwood, VIC.

'Smith's Aurora'ϕ
Application No: 98/186 Grantee: **The Smith's Snackfood Company Limited**.
Certificate No: 1367 Expiry Date: 20 December, 2019.
Agent: **Agriculture Victoria Services Pty Ltd**, Attwood, VIC.

'Smith's Comet'ϕ
Application No: 98/187 Grantee: **The Smith's Snackfood Company Limited**.
Certificate No: 1368 Expiry Date: 20 December, 2019.
Agent: **Agriculture Victoria Services Pty Ltd**, Attwood, VIC.

'Smith's Orion'ϕ
Application No: 97/274 Grantee: **The Smith's Snackfood Company Limited**.
Certificate No: 1373 Expiry Date: 20 December, 2019.
Agent: **Agriculture Victoria Services Pty Ltd**, Attwood, VIC.

'Smith's Stellar'ϕ
Application No: 97/273 Grantee: **The Smith's Snackfood Company Limited**.
Certificate No: 1370 Expiry Date: 20 December, 2019.
Agent: **Agriculture Victoria Services Pty Ltd**, Attwood, VIC.

ROSE
Rosa hybrid

'Betsy Taaffe'ϕ
Application No: 96/187 Grantee: **David Taaffe**, Elwood, VIC.
Certificate No: 1364 Expiry Date: 20 December, 2019.

'My Sweet Honeycomb'Φ

Application No: 97/066 Grantee: **John Gordon**, Wamboin, NSW.
Certificate No: 1394 Expiry Date: 22 December, 2019.

RYEGRASS, PERENNIAL
Lolium perenne

'Avalon'Φ

Application No: 97/320 Grantee: **Agriculture Victoria Services Pty Ltd**, Attwood, VIC.
Certificate No: 1383 Expiry Date: 21 December, 2019.

SHEOAK, BLACK
Allocasuarina littoralis

'Matuka Silver'Φ

Application No: 95/205 Grantee: **Penelope Sinclair**, Nambour, QLD.
Certificate No: 1390 Expiry Date: 21 December, 2024.

STATICE
Limonium perezii

'Cosita'Φ

Application No: 97/233 Grantee: **RJ Cherry**, Kulnura, NSW.
Certificate No: 1362 Expiry Date: 16 December, 2019.

STRAWBERRY
Fragaria xananassa

'Alinta'Φ

Application No: 97/071 Grantee: **Agriculture Victoria Services Pty Ltd**, Attwood, VIC.
Certificate No: 1357 Expiry Date: 16 December, 2019.

'Euroka'Φ

Application No: 97/070 Grantee: **Agriculture Victoria Services Pty Ltd**, Attwood, VIC.
Certificate No: 1356 Expiry Date: 16 December, 2019.

'Lowanna'Φ

Application No: 97/069 Grantee: **Agriculture Victoria Services Pty Ltd**, Attwood, VIC.
Certificate No: 1359 Expiry Date: 16 December, 2019.

'Nonda'Φ

Application No: 97/072 Grantee: **Agriculture Victoria Services Pty Ltd**, Attwood, VIC.
Certificate No: 1358 Expiry Date: 16 December, 2019.

'Cartuno'Φ

Application No: 95/108 Grantee: **Plantas de Navarra SA (PLANASA)**.
Certificate No: 1381 Expiry Date: 21 December, 2019.
Agent: **Nu-Plants Australia**, Rochedale, QLD.

SYNGONIUM
Syngonium podophyllum

'Gold Allusion'Φ

Application No: 97/152 Grantee: **Bob Donaldson**.
Certificate No: 1365 Expiry Date: 20 December, 2019.
Agent: **Burbank Biotechnology Pty Ltd**, Tuggerah, NSW.

'Maria Allusion'Φ syn **Cherry Allusion**Φ

Application No: 98/132 Grantee: **AgriStarts Inc**.
Certificate No: 1366 Expiry Date: 20 December, 2019.
Agent: **Burbank Biotechnology Pty Ltd**, Tuggerah, NSW.

'White Holly'Φ

Application No: 97/151 Grantee: **Robert Morrison**.
Certificate No: 1396 Expiry Date: 22 December, 2019.
Agent: **Burbank Biotechnology Pty Ltd**, Tuggerah, NSW.

TRITICALE
x*Triticosecale*

'Heritage Zephyr'Φ

Application No: 98/050 Grantee: **New Zealand Institute for Crop & Food Research Ltd**.
Certificate No: 1360 Expiry Date: 16 December, 2019.
Agent: **Heritage Seeds Pty Ltd**, Howlong, NSW.

WHEAT
Triticum aestivum

'Ajana'Φ

Application No: 98/139 Grantee: **Chief Executive Officer, Agriculture Western Australia,** South Perth, WA and **Grains Research and Development Corporation,** Barton, ACT.
Certificate No: 1379 Expiry Date: 21 December, 2019.

'Brennan'Φ

Application No: 98/177 Grantee: **CSIRO Plant Industry,** Canberra, ACT and **Grains Research and Development Corporation,** Barton, ACT.
Certificate No: 1387 Expiry Date: 21 December, 2019.

'Tennant'Φ

Application No: 98/178 Grantee: **CSIRO Plant Industry,** Canberra, ACT and **Grains Research and Development Corporation,** Barton, ACT.
Certificate No: 1386 Expiry Date: 21 December, 2019.

APPLICATIONS VARIED

The denomination of the PBR application *Medicago sativa* **'Grasslands Crusader'** (App. No. 96/036) has been changed to **'Grasslands Torlesse'**.

The denomination of the PBR application *Medicago sativa* **'Stirling'** (App. No. 99/073) has been changed to **'UQL-1'**.

The denomination of the PBR application *Syngonium podophyllum* **'Holly M'** (App. No. 97/151) has been changed to **'White Holly'**.

The denomination of the PBR application *Brassica napus* **'Emblem'** (App. No. 99/171) has been changed to **'Ag Emblem'**.

The denomination of the PBR application *Brassica napus* **'BLN 1400'** (App. No. 99/161) has been changed to **'Ripper'**.

The denomination of the PBR application *Triticum aestivum* **'M5487'** (App. No. 99/163) has been changed to **'Wylah'**.

For *Alstroemeria* hybrid **'Stabelin'** (App. No. 97/243),**'Stalauli'** (App. No. 97/253) and **'Testapink'** (App. No. 97/245) the original synonyms **Belinda, Laura** and **Pink Diamond** have been retained respectively.

The synonym **Spring Gold** has been deleted from the PBR application *Prunus persica var. nucipersica* **'Spring Sweet'** (App. No. 99/077).

The Rural Industries Research and Development Corporation and **Australian Wool Research and Promotion Organisation** are the joint applicants along with the original applicant **CLIMA** for the PBR application *Trifolium vesiculosum* **'Cefalu'** (App. No. 97/149).

The agent for the PBR application *Boronia heterophylla* **'Just Margaret'** (App. No. 92/167) has been changed from **Proteaflora Enterprises Pty Ltd** to **Greenhills Propagation Nursery Pty Ltd**.

The agent for the PBR applications *Scabiosa columbaria* **'Pink Mist'** (App. No. 92/073) and **'Butterfly Blue'** (App. No. 92/074) has been changed from **Colourwise Nursery (NSW) Pty Ltd** to **Koala Blooms Australia**.

The denominations of the following *Pelargonium* applications have been changed to the original UPOV registered name to conform to the requirements of subsection 27(2) of *Plant Breeders Rights Act 1994*. The current names and synonyms are as follows:

App No.	Variety Name	Synonym
98/008	'BFP-838 Dark Red'	Designer Dark Red
98/011	'Pink Heart'	Showcase Pink Heart
98/012	'BFP-788 Bright Scarlet'	Designer Bright Scarlet
98/013	'BFP-721 Bright Lilac'	Designer Bright Lilac

The denomination of *Brunfelisa latifolia* **'Sweet Petite'** (App. No 98/176) has been changed to **'Sweet & Petite'**.

The denominations of *Cicer arietinum* **'T1315'** (App. No. 97/096) and **'G846-2-5'** (App. No. 97/097) have been changed respectively to **'Gully'** and **'Bumper'**.

APPLICATIONS WITHDRAWN

Actinotus helianthi **'Federation Star'** (App 98/042)
Boronia heterophylla **'Early Red'** (App 98/016)
Calibrachoa hybrid **'Liricashower'** (App. No. 98/168)
Calibrachoa hybrid **'Liricashower Blue'** (App. No. 98/169)
Cupressocyparis leylandii **'Ferngold'** (App. No. 95/292)
Euphorbia pulcherrima **'Moni'** syn **Red Fox Moni** (App. No. 98/256)
Euphorbia pulcherrima **'Peterstar Jingle Bells'** (App. No. 99/018)
Ficus benjamina **'Twilight Beauty'** (App. No. 97/165)
Lilium hybrid **'Nippon'** (App. No. 95/309)
Lilium hybrid **'Colonna'** (App. No. 96/162)
Lilium hybrid **'Rosato'** (App. No. 96/163)
Lilium hybrid **'Arena'** (App. No. 96/164)
Lilium hybrid **'Spinoza'** (App. No. 96/167)
Lilium hybrid **'Sartre'** (App. No. 96/168)
Lilium hybrid **'Galilei'** (App. No. 96/173)
Lilium hybrid **'Bergamo'** (App. No. 96/176)
Prunus persica **'Autumn Flame'** (App. No. 99/282)
Rosa hybrid **'Benmech'** syn **Kate's Delight** (App. No. 98/159)
Rosa hybrid **'Benmfig'** syn **Benardella's Pearl** (App. No. 98/160)
Sutera cordata **'Knysna Hills'**(App. No. 96/124)
Sutera cordata **'Eight Bells'**(App. No. 96/125)
Viola hybrid **'Major Primrose'** (App. No. 99/291)

GRANTS SURRENDERED

Alstroemeria hybrid (App.No. 89/106)	**'Stalibla'** syn **White Libelle** Certificate No. 234
Alstroemeria hybrid (App.No. 89/108)	**'Stalilas'** syn **Jubilee** Certificate No. 235
Alstroemeria hybrid (App.No. 89/111)	**'Stalvir'** syn **Carola** Certificate No. 127
Alstroemeria hybrid (App.No. 89/113)	**'Staronic'** syn **Veronia** Certificate No. 364
Alstroemeria hybrid (App.No. 89/115)	**'Starover'** syn **Olivia** Certificate No. 128
Alstroemeria hybrid (App.No. 89/116)	**'Stapurzul'** syn **Azula** Certificate No. 365
Alstroemeria hybrid (App.No. 89/118)	**'Stayeli'** syn **Yellow Libelle** Certificate No. 366
Argyranthemum frutescens (App.No. 94/193)	**'Le Rosetta'** Certificate No. 707
Argyranthemum frutescens (App.No. 94/194)	**'Polly Anna'** Certificate No. 699

Cupressus sempervirens (App.No. 94/098)	**'Gold Pillar'** Certificate No. 711
Hordeum vulgare (App.No. 91/064)	**'Cask'** syn **Ashton** Certificate No. 203
Hordeum vulgare (App.No. 95/128)	**'Empress'** syn **90BE32** Certificate No. 981
Oenothera rosea (App.No. 95/242)	**'Ballerina Hot Pink'** syn **Prima Donna** Certificate No. 955
Rosa hybrid (App.No. 91/040)	**'Golden Friendship'** syn **Hartellody** Certificate No. 195
Rosa hybrid (App.No. 93/074)	**'Bruninitial'** syn **Brundrett Centenary** Certificate No. 414
Solanum tuberosum (App.No. 94/067)	**'Gladiator'** Certificate No. 501
Spathiphyllum wallissi (App.No. 92/006)	**'Caroline'** Certificate No. 401
Triticum aestivum (App.No. 93/240)	**'Stiletto'** Certificate No. 1066

CHANGE OF ASSIGNMENT

The new owner of the PBR applications *Gossypium hirsutum* **'DP 5690'** syn **Linda** (App. No. 93/218) and **'DP 5415'** syn **Blanca** (App. No. 93/219) is **D&PL Technology Holding Corp.**

The new owners of the PBR application *Mangifera indica* **'B74'** (App. No. 98/018) are **The State of Queensland through its Department of Primary Industries** and **Promised Land Avocados Pty Ltd**.

The new owners of the following PBR *Chamelaucium* applications are **Robert John Ward & Ljubomyra Ward, Albert Wetzler & Masako Otani** and **William John Hoffman & Patricia Amy Hester Hoffman,** all of 1 Felton Road, City Beach, WA 6015.

Application No.	Variety Name	Certificate No.
90/008	**'White Spring'**	**347**
90/009	**'Eric John'**	**348**
90/010	**'Variegated Blush'**	**349**
90/011	**'Lady Jennifer'**	**350**
91/041	**'Pearl Buttons'**	**528**
91/043	**'Triumphant'**	**352**
92/013	**'Muchea Mauve'**	**938**
92/014	**'Jenny Jane'**	**939**
92/015	**'Jubilee Jade'**	**1048**
92/016	**'Kismet'**	**940**

CORRIGENDA

In **PVJ 12(1),** in the comparative table (**Table 28**) of description of *Lolium perenne* **'Avalon' p.43**, the measurement units for **flag leaf width** and **spikelet length** should be in **mm** instead of **cm**.

In **PVJ 12(1),** in the comparative tables (**Table 15 and 16**) of descriptions of *Pisum sativum* **'Excell'** and **'Paravic' (p.28-30),** the measurement units for **pod maximum width** should be **mm** instead of **cm**.

in **PVJ 11(4) p. 49,** under the **Prior Application and Sales** heading of *Weigela florida* **'Plangen'** the actual date of first sale should be **10 Dec 1997** under the name **'Piccolo'**.

In **PVJ 12(2), p. 12,** the denomination of *Impatiens* hybrid **'Kilye'** syn **Lycia** (PBR application No. 99/091) should be **'Kilyc'** syn **Lycia**.

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 1994) 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.

If PBR fees for services rendered after 1 July 2000 become liable for GST, notifications will be made in this journal and appropriate adjustments made to the relevant invoices detailing the amount of GST.

Payment of Fees

All cheques for fees should be made payable and sent to:

Collector of Public Monies
C/-Plant Breeders Rights Office
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.

FEES

Basic Fees	**Schedule**			
	A	**B**	**C**	**D**
	$			
Application	300	300	400	300
Examination – per application	1400	1200	1400	800
Certificate	300	300	250	300
Total Basic Fees	2000	1800	2050	1400

Annual Renewal – all applications 300

Schedule
A Single applications and applications based on an official overseas test reports.
B 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.
C Applications lodged under PVR (prior to 10th Nov 1994)
D Applicable to 5 or more applications examined at an Accredited Centralised Testing Centre

Other Fees

Variation to application(s) – per hour or part thereof	75
Change of Assignment – per application	100
Copy of an application (Part 1 and/or Part 2) , an objection or a detailed description	50
Copy of an entry in the Register	50
Lodging an objection	100
Annual subscription to Plant Varieties Journal	40
Back issues of Plant Varieties Journal	14
Administration – Other work relevant to PBR – per hour or part thereof	75
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	

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 **Hare**
Director of Research
Pacific Seeds Australia
6 Nugent Crescent
TOOWOOMBA QLD 4350
Representing Plant Breeders

Ms Cheryl **McCaffery**
Business Development Manager
UniQuest Limited
Research Road
University of Queensland
ST LUCIA QLD 4072
Member with appropriate qualifications and experience

Mr David **Moore**
Consultant
Applied Economic and Technology Services
PO Box 193
GAWLER, SA 5118
Member with appropriate qualifications and experience

Ms Natalie **Peate**
Nursery Owner
26 Kardinia Crescent
WARRENWOOD VIC 3134
Representing consumers

Mr Hugh **Roberts**
Farmer
'Birralee'
COOTAMUNDRA NSW 2694
Representing Users

Professor Margaret **Sedgley**
Head, Dept. of Horticulture, Viticulture and Oenology
University of Adelaide
Waite Campus, PMB 1
GLEN OSMOND SA 5064
Representing Plant Breeders

Mr Doug **Waterhouse** (Chair)
Registrar, Plant Breeders Rights
GPO Box 858
CANBERRA ACT 2601

Comments on the technical operation of, or amendments to, the *Plant Breeder's Rights Act 1994*, particularly applications under section 17(2), should be directed through the Chairman.

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 fulfil 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 Darmody, Liz Fleming, Graham Langford, Garry Mackay, Alastair Maddox, Zoee Malone, Michael Mitchell, Leslie Pullar, David Robinson, Ben Scholefield, Peter Stearne, Peter Tancred, Stephen Valentine, Bruce
Anigozanthos	Paananen, Ian Kirby, Greg
Aroid	Harrison, Peter
Azalea	Barrett, Mike Hempel, Maciej Paananen, Ian
Barley (Common)	Boyd, Rodger Brouwer, Jan Collins, David Khan, Akram Platz, Greg
Berry Fruit	Darmody, Liz Fleming, Graham Maddox, Zoee Pullar, David Robinson, Ben Scholefield, Peter
Blueberry	Barthold, Graham Pullar, David
Bougainvillea	Iredell, Janet Willa
Brassica	Aberdeen, Ian Baker, Andrew Easton, Andrew Chowdhury, Doza Cross, Richard Fennell, John Kadkol, Gururaj McMichael, Prue Pullar, David Robinson, Ben Scholefield, Peter Tay, David
Buddleia	Robb, John Paananen, Ian
Camellia	Paananen, Ian Robb, John
Cassava	Tay, David
Cereals	Alam, Rafiul Brouwer, Jan Bullen, Kenneth Collins, David Cook, Bruce Cooper, Kath Cross, Richard Davidson, James Derera, Nicholas AM Downes, Ross Fennell, John Fletcher, Rob Gardner, Anne Hare, Raymond Harrison, Peter Henry, Robert J Khan, Akram Kidd, Charles Law, Mary Ann Mitchell, Leslie Oates, John Platz, Greg Poulsen, David Rose, John Scattini, Walter John Stearne, Peter Stuart, Peter Vertigan, Wayne Williams, Warren Wilson, Frances
Cherry	Darmody, Liz Fleming, Graham Kennedy, Peter Mackay, Alastair Maddox, Zoee Mitchell, Leslie Pullar, David Robinson, Ben Scholefield, Peter
Chickpeas	Brouwer, Jan Chowdhury, Doza Collins, David Goulden, David
Citrus	Edwards, Megan Fox, Primrose Gingis, Aron Lee, Slade Maddox, Zoee Mitchell, Leslie Pullar, David Robinson, Ben Scholefield, Peter Sykes, Stephen Topp, Bruce
Clover	Lake, Andrew Miller, Jeff Mitchell, Leslie Nichols, Phillip
Conifer	Stearne, Peter
Cotton	Alam, Rafiul Derera, Nicholas AM Leske, Richard
Cucurbits	Alam, Rafiul Cross, Richard Herrington, Mark McMichael, Prue Pullar, David Robinson, Ben Scholefield, Peter Sykes, Stephen
Cydonia	Baxter, Leslie
Dogwood	Darmody, Liz Fleming, Graham Maddox, Zoee Stearne, Peter
Feijoa	Robinson, Ben Scholefield, Peter
Fig	Darmody, Liz FitzHenry, Daniel Fleming, Graham Maddox, Zoee Pullar, David
Forage Brassicas	Goulden, David
Forage Grasses	Berryman, Tim Bray, Robert Fennell, John Harrison, Peter Kirby, Greg Mitchell, Leslie Slatter, John Smith, Kevin
Forage Legumes	Bray, Robert Fennell, John Foster, Kevin Harrison, Peter Lake, Andrew Miller, Jeff Slatter, John Snowball, Richard
Forest Trees	Lubomski, Marek
Fruit	Beal, Peter Darmody, Liz Fleming, Graham Gingis, Aron Lenoir, Roland Maddox, Zoee McCarthy, Alec Mitchell, Leslie Pullar, David Robinson, Ben Scholefield, Peter
Fungi, Basidiomycetes	Cairney, John
Fungi, Entomopathogenic	Milner, Richard
Grapes	Biggs, Eric Cirami, Richard Darmody, Liz Fleming, Graham

Gingis, Aron
Lee, Slade
Maddox, Zoee
Mitchell, Leslie
Pullar, David
Robinson, Ben
Scholefield, Peter
Stearne, Peter
Sykes, Stephen

Grevillea
Herrington, Mark

Hydrangea
Hanger, Brian
Maddox, Zoee

Impatiens
Paananen, Ian

Jojoba
Dunstone, Bob

Legumes
Aberdeen, Ian
Bahnisch, L
Baker, Andrew
Bray, Robert
Chowdhury, Doza
Collins, David
Cook, Bruce
Downes, Ross
Foster, Kevin
Harrison, Peter
Imrie, Bruce
Kirby, Greg
Knights, Edmund
Lake, Andrew
Law, Mary Ann
Loch, Don
Mitchell, Leslie
Nutt, Bradley
Rose, John
Snowball, Richard

Lentils
Brouwer, Jan
Chowdhury, Doza
Collins, David
Goulden, David

Lucerne
Lake, Andrew
Mitchell, Leslie
Bray, Robert
Nichols, Phillip

Lupin
Collins, David

Magnolia
Paananen, Ian

Maize
Slatter, John

Myrtaceae
Dunstone, Bob

Native grasses
Quinn, Patrick
Waters, Cathy

Neem
Friend, Joe

Oat
Collins, David
Khan, Akram
Platz, Greg

Oilseed crops
Downes, Ross
Kidd, Charles
Poulsen, David
Slatter, John

Olives
Bazzani, Mr Luigi
Gingis, Aron
Pullar, David

Onions
Cross, Richard
Fennell, John
Gingis, Aron
McMichael, Prue
Pullar, David
Robinson, Ben
Scholefield, Peter

Ornamentals – Exotic
Abell, Peter
Armitage, Paul
Angus, Tim
Barth, Gail
Beal, Peter
Collins, Ian
Cooling, Beth
Cross, Richard
Cunneen, Thomas
Darmody, Liz
Dawson, Iain
Derera, Nicholas AM
Fisk, Anne Marie
Fitzhenry, Daniel
Fleming, Graham
Gingis, Aron
Harrison, Peter
Hempel, Maciej
Johnston, Margaret
Kirkham, Roger
Kwan, Brian
Larkman, Clive
Lenoir, Roland
Lowe, Greg
Lubomski, Marek
Lunghusen, Mark
Maddox, Zoee
McMichael, Prue
Mitchell, Leslie
Nichols, David
Oates, John
Paananen, Ian
Robb, John
Robinson, Ben
Scholefield, Peter
Singh, Deo
Stearne, Peter
Stewart, Angus
Tay, David
Van der Ley, John
Washer, Stewart
Watkins, Phillip
Winfield, Joel

Ornamentals – Indigenous
Abell, Peter
Allen, Paul
Angus, Tim
Barrett, Mike
Barth, Gail
Beal, Peter
Cooling, Beth
Cunneen, Thomas
Dawson, Iain
Derera, Nicholas AM
Downes, Ross
Harrison, Peter
Henry, Robert J
Hockings, David
Jack, Brian
Johnston, Margaret
Kirby, Greg
Kirkham, Roger
Lenoir, Roland
Lowe, Greg
Lullfitz, Robert
Lunghusen, Mark
McMichael, Prue
Molyneux, W M
Nichols, David
Oates, John
Paananen, Ian
Robinson, Ben
Scholefield, Peter
Singh, Deo
Stearne, Peter
Tan, Beng
Watkins, Phillip
Winfield, Joel
Worrall, Ross

Ornithopus
Foster, Kevin
Nichols, Phillip
Nutt, Bradley
Snowball, Richard

Osmanthus
Paananen, Ian
Robb, John

Pastures & Turf
Aberdeen, Ian
Anderson, Malcolm
Avery, Angela
Bahnisch, L
Berryman, Tim
Cameron, Stephen
Cook, Bruce
Downes, Ross
Gellert, Valerie
Harrison, Peter
Kaapro, Jyri
Kirby, Greg
Loch, Don
Miller, Jeff
Mitchell, Leslie
Rawstron, Jane
Rose, John
Smith, Raymond
Scattini, Walter John
Slatter, John
Smith, Kevin
Williams, Warren
Wilson, Frances

Peanut
George, Doug
Tay, David

Pear
Baxter, Leslie
Darmody, Liz
Fleming, Graham
Langford, Garry
Mackay, Alastair
Maddox, Zoee
Malone, Michael
Pullar, David
Robinson, Ben
Scholefield, Peter

Tancred, Stephen
Valentine, Bruce

Petunia
Paananen, Ian
Nichols, David

Photinia
Robb, John

Pistacia
Pullar, David
Richardson, Clive
Sykes, Stephen

Pisum
Brouwer, Jan
Chowdhury, Doza
Goulden, David
McMichael, Prue

Potatoes
Baker, Andrew
Cross, Richard
Fennell, John
Kirkham, Roger
McMichael, Prue
Pullar, David
Robinson, Ben
Scholefield, Peter
Stearne, Peter
Tay, David

Proteaceae
Barth, Gail
Kirby, Neil
Robb, John
Robinson, Ben
Scholefield, Peter

Pseudocereals
Fletcher, Rob

Pulse Crops
Bestow, Sue
Brouwer, Jan
Chowdhury, Doza
Collins, David
Cross, Richard
Fletcher, Rob
Kidd, Charles
Oates, John
Poulsen, David
Slatter, John

Prunus
Darmody, Liz
Fleming, Graham
Mackay, Alastair
Maddox, Zoee
Malone, Michael
Porter, Gavin
Pullar, David
Topp, Bruce

Raspberry
Barthold, Graham
Darmody, Liz
Fleming, Graham
Martin, Stephen
Pullar, David
Robinson, Ben
Scholefield, Peter

Rhododendron
Barrett, Mike
Paananen, Ian

Roses
Barrett, Mike
Cross, Richard
Darmody, Liz
Fitzhenry, Daniel
Fleming, Graham
Fox, Primrose
Gingis, Aron
Hanger, Brian
Lee, Peter
Maddox, Zoee
Prescott, Chris
Robinson, Ben
Scholefield, Peter
Stearne, Peter
Swane, Geoff
Syrus, A Kim
Van der Ley, John

Sesame
Bennett, Malcolm
Harrison, Peter
Imrie, Bruce

Sorghum
Khan, Akram
Slatter, John

Soybean
Andrews, Judith
Harrison, Peter
James, Andrew

Spices and Medicinal Plants
Derera, Nicholas AM
Pullar, David

Stone Fruit
Barrett, Mike
Darmody, Liz
Fleming, Graham
Mackay, Alistair
Maddox, Zoee
Malone, Michael
Pullar, David
Robinson, Ben
Scholefield, Peter
Valentine, Bruce

Strawberry
Barthold, Graham
Gingis, Aron
Herrington, Mark
Martin, Stephen
Mitchell, Leslie
Morrison, Bruce
Porter, Gavin
Pullar, David
Robinson, Ben
Scholefield, Peter
Zorin, Clara

Sugarcane
Cox, Mike
Morgan, Terence
Tay, David

Sunflower
George, Doug

Tomato
Cross, Richard
Gingis, Aron
Herrington, Mark
Martin, Stephen
McMichael, Prue
Pullar, David
Robinson, Ben
Scholefield, Peter

Tree Crops
Friend, Joe
McRae, Tony

Triticale (x Triticosecale Wittmack)
Collins, David

Tropical/Sub-Tropical Crops
Fletcher, Rob
Harrison, Peter
Kulkarni, Vinod
Paulin, Robert
Pullar, David
Robinson, Ben
Scholefield, Peter
Tay, David
Winston, Ted

Umbrella Tree
Paananen, Ian

Vegetables
Alam, Rafiul
Baker, Andrew
Beal, Peter
Cross, Richard
Derera, Nicholas AM
Fennell, John
Frkovic, Edward
Gingis, Aron
Harrison, Peter
Kirkham, Roger
Lenoir, Roland
McMichael, Prue
Oates, John
Pearson, Craig
Pullar, David
Robinson, Ben
Scholefield, Peter
Scott, Peter
Tay, David
Westra Van Holthe, Jan

Verbena
Paananen, Ian

Wheat (Aestivum & Durum Groups)
Brouwer, Jan
Collins, David
Gardner, Anne
Khan, Akram
Platz, Greg

TABLE 2

NAME	TELEPHONE	AREA OF OPERATION
Abel, Peter	02 9351 8825	
	02 9351 8875 fax	New South Wales
Aberdeen, Ian	03 5782 1029	
	03 5782 2073 fax	SE Australia
Alam, Rafiul	07 5460 1184	
	07 5460 1112 fax	SE QLD
Allen, Paul	07 3824 0263 ph/fax	SE QLD, Northern NSW
Anderson, Malcolm	03 5573 0900	
	03 5571 1523 fax	
	017 870 252 mobile	Victoria
Andrews, Judith	02 6951 2614	
	02 6955 7580 fax	Southern NSW, Northern VIC
Angus, Tim	02 4751 5702 ph/fax	Australia and New Zealand
Armitage, Paul	03 9756 7233	
	03 9756 6948 fax	Victoria
Avery, Angela	02 6030 4500	
	02 6030 4600 fax	South Eastern Australia
Bahnisch, L	07 5460 1457	
	07 5460 1204 fax	Australia
Baker, Andrew	03 6427 8553	
	03 6427 8554 fax	Tasmania
Barrett, Mike	02 9875 3087	
	02 9980 1662 fax	
	0407 062 494 mobile	NSW/ACT
Barth, Gail	08 8303 9580	
	08 8303 9424 fax	SA and Victoria
Barthold, Graham	03 5997 1413	
	03 5942 5132 fax	Southern Victoria
Baxter, Leslie	03 6224 4481	
	03 6224 4468 fax	
	0181 21943 mobile	Tasmania
Bazzani, Luigi	08 9772 1207	
	08 9772 1333 fax	Western Australia
Beal, Peter	07 3286 1488	
	07 3286 3094 fax	QLD & Northern NSW
Bennett, Malcolm	08 8973 9733	
	08 8973 9777 fax	NT, QLD, NSW, WA
Berryman, Tim	02 6272 9662 ph/fax	
	0427 894 266 mobile	ACT region
Bestow, Sue	02 6795 4050	
	02 6795 3358 fax	
	0152 54695 mobile	Australia
Biggs, Eric	03 5023 2400	
	03 5023 3922 fax	Mildura Area
Boyd, Rodger	08 9380 2553	
	08 9380 1108 fax	Western Australia
Bray, Robert	07 3378 3158	QLD & Northern NSW
Brouwer, Jan	03 5362 2159	
	03 5362 2187 fax	South Eastern Australia
Cairney, John	02 9685 9903	Sydney
	j.cairney@nepean.uws.edu.au	
Chowdhury, Doza	08 8303 7227	
	08 8303 7109 fax	South Australia and Victoria
Cirami, Richard	08 8562 8273	
	08 8562 8415 fax	Australia
Collins, David	08 9622 6100	Central Western
	08 9622 1902 fax	Wheatbelt of Western
	0154 42694 mobile	Australia
Cooling, Beth	07 5533 2277 ph/fax	
	0414 533301 mobile	Gilston, Queensland
Cooper, Katharine	08 8303 6563	
	08 8303 7119 fax	Australia
Cox, Mike	07 4132 5200	
	07 4132 5253 fax	Queensland and NSW
Croft, Valerie	03 5573 0900	
	03 5571 1523 fax	Victoria
Cross, Richard	64 3 325 6400	
	64 3 325 2074 fax	New Zealand
Cunneen, Thomas	02 4889 8647	
	02 4889 8657 fax	Sydney Region
Darmody, Liz	03 9756 6105	
	03 9752 0005 fax	Australia
Davidson, James	02 6246 5071	High rainfall zone of
	02 6246 5399 fax	temperate Australia
Dawson, Iain	02 6251 2293	ACT, South East NSW
Derera, Nicholas AM	02 9639 3072	
	02 9639 0345 fax	
	0414 639 307 mobile	Australia
Downes, Ross	02 6255 1461 ph	
	02 6278 4676 fax	
	0414 955258 mobile	ACT, South East Australia
Dunstone, Bob	02 6281 1754 ph/fax	South East NSW
Easton, Andrew	07 4690 2666	
	07 4630 1063 fax	QLD and NSW
Edwards, Megan	03 5024 5960	
	03 5024 7470 fax	
	0418 532 354	VIC/NSW
Fennell, John	03 5334 7871	
	03 5334 7892 fax	
	0419 881 887	Australia
FitzHenry, Daniel	02 4862 2487 ph/fax	Sydney and
	0417 891 651 mobile	surrounding districts
Fleming, Graham	03 9756 6105	
	03 9752 0005 fax	Australia
Fletcher, Rob	07 5465 4126	
	07 5460 1112 fax	Australia
Foster, Kevin	08 9368 3670	Mediterranean areas of Australia
Friend, Joe	02 6688 6150 ph/fax	Northern QLD & NSW
Frkovic, Edward	02 6962 7333	
	02 6964 1311 fax	Australia
Gardner, Anne	02 6238 3536	Australia, New Zealand
George, Doug	07 5460 1308	
	07 5460 1112 fax	Australia
Gellert, Valerie	03 5573 0900	
	03 5571 1523 fax	Victoria
Gingis, Aron	03 9887 6120	
	03 9769 1522 fax	Victoria, South Australia
	0419 878658 mobile	and Southern NSW
Goulden, David	64 3 325 6400	
	64 3 325 2074 fax	New Zealand
Hanger, Brian	03 9756 7532	
	03 9756 6684 fax	
	03 9752 0603 fax	
	0418 598106 mobile	Victoria
Hare, Ray	02 6763 1232	
	02 6763 1222 fax	QLD, NSW VIC & SA
Harrison, Peter	08 8948 1894 ph	Tropical/Sub-tropical
	08 8948 3894 fax	Australia, including NT and
	0407 034 083 mobile	NW WA and tropical arid areas
Hempel, Maciej	02 4628 0376	
	02 4625 2293 fax	NSW, QLD, VIC, SA
Henry, Robert J	02 6620 3010	
	02 6622 2080 fax	Australia
Herrington, Mark	07 5441 2211	
	07 5441 2235 fax	Southern Queensland
Hockings, David	07 5494 3385 ph/fax	Southern Queensland
Imrie, Bruce	02 4471 2976	
	0409 266762	SE Australia
Iredell, Janet Willa	07 3202 6351 ph/fax	SE Queensland
Jack, Brian	08 9952 5040	
	08 9952 5053 fax	South West WA
James, Andrew	07 3214 2278	
	07 3214 2410 fax	Australia
Johnston, Margaret	07 5460 1240	
	07 5460 1455 fax	SE Queensland
Kaapro, Jyri	02 9637 8711	
	02 9637 8599 fax	Sydney and surrounding areas
Kadkol, Gururaj	03 5382 1269	
	03 5381 1210 fax	North Western Victoria
Kennedy, Peter	02 6382 1077	
	02 6382 2228 fax	Australia
Khan, Akram	02 9351 8821	
	02 9351 8875 fax	New South Wales
Kidd, Charles	08 8842 3591	
	08 8842 3066 fax	
	0417 336 458 mobile	Southern Australia
Kirby, Greg	08 8201 2176	
	08 8201 3015 fax	South Australia
Kirby, Neil	02 4754 2637	
	02 4754 2640 fax	New South Wales
Kirkham, Roger	03 5957 1200	
	03 5957 1210 fax	
	0153 23713 mobile	Victoria
Knights, Edmund	02 6763 1100	
	02 6763 1222 fax	North Western NSW
Kulkarni, Vinod	08 9992 2221	
	08 9992 2049 fax	Australia
Kwan, Brian	03 5943 1088	
	03 5943 1146 fax	Australia
Lake, Andrew	08 8177 0558	
	0418 818 798 mobile	
	lake@arcom.com.au	SE Australia
Langford, Garry	03 6266 4344	
	03 6266 4023 fax	
	0418 312 910 mobile	Australia
Larkman, Clive	03 9735 3831	
	03 9739 6370	
	larkman@tpgi.com.au	Victoria
Law, Mary Ann	07 4638 4322	
	07 4638 4271 fax	Toowoomba region
Lee, Peter	03 6330 1147	
	03 6330 1927 fax	SE Australia

Lee, Slade	02 6620 3410	Queensland/Northern
	02 6622 2080 fax	New South Wales
Lenoir, Roland	02 6231 9063 ph/fax	Australia
Leske, Richard	07 4671 3136	Cotton growing regions of
	07 4671 3113 fax	QLD & NSW
Loch, Don	07 5482 1522	
	07 5482 1529 fax	Queensland
Lowe, Greg	02 4389 8750	
	02 4389 4958 fax	
	0411 327390 mobile	Sydney, Central Coast NSW
Lubomski, Marek	07 5525 3023 ph/fax	NSW & QLD
Lullfitz, Robert	08 9447 6360	South West WA
Lunghusen, Mark	03 9752 0477	
	03 9752 0028 fax	
	0407 050 133 mobile	Melbourne & environs
Mackay, Alastair	08 9310 5342 ph/fax	
	0159 87221 mobile	Western Australia
Maddox, Zoee	03 9756 6105	
	03 9752 0005 fax	Australia
Malone, Michael	+64 6 877 8196	
	+64 6 877 4761 fax	New Zealand
Martin, Stephen	03 6231 2489	
	03 6231 4508 fax	
	0418 500198 mobile	Tasmania
McCarthy, Alec	08 9780 6273	
	08 9780 6136 fax	South West WA
McMichael, Prue	08 8373 2488	
	08 8373 2442 fax	SE Australia
McRae, Tony	08 8723 0688	
	08 8723 0660 fax	Australia
Miller, Jeff	64 6 356 8019 extn 8027	Manawatu region,
	64 3 351 8142 fax	New Zealand
Milner, Richard	02 6246 4169	
	02 6246 4042 fax	
	richardm@ento.csiro.au	Australia
Mitchell, Leslie	03 5821 2021	
	03 5831 1592 fax	VIC, Southern NSW
Molyneux, William	03 5965 2011	
	03 5965 2033 fax	Victoria
Morgan, Terence	07 4783 6000	
	07 4783 6001 fax	Australia
Morrison, Bruce	03 9210 9251	
	03 9800 3521 fax	East of Melbourne
Nichols, David	03 5977 4755	SE Melbourne, Mornington
	03 5977 4921 fax	Peninsula and Dandenong Ranges, Victoria
Nichols, Phillip	08 9387 7442	
	08 9383 9907 fax	Western Australia
Nutt, Bradley	08 9387 7423/	
	08 9383 9907 fax	Western Australia
Oates, John	02 4651 2601	Sydney region, Eastern
	02 4651 2578 fax	Australia
Paananen, Ian	02 4381 0051	
	02 4381 0071 fax	
	0412 826589 mobile	Sydney/Newcastle
Paulin, Robert	08 9368 3308	
	08 9367 2625 fax	
	0191 07244 mobile	South West Western Australia
Platz, Greg	07 4639 8817	
	07 4639 8800 fax	QLD, Northern NSW
Porter, Gavin	07 5460 1231	
	07 5460 1455 fax	SE QLD, Northern NSW
Poulsen, David	07 4661 2944	
	07 4661 5257 fax	SE QLD, Northern NSW
Prescott, Chris	03 5964 2780 ph/fax	
	0417 340 558 mobile	Victoria
Pullar, David	03 5822 2222	
	03 5822 2200 fax	
	0418 575 444 mobile	Australia
Quinn, Patrick	03 5427 0485	SE Australia
Rawstron, Jane	03 6336 5219	
	03 6344 9814 fax	Tasmania
Richardson, Clive	03 5155 0255	
	03 5143 2168	New South Wales and Victoria
Robb, John	02 4376 1330	
	02 4376 1271 fax	
	0199 19252 mobile	Sydney, Central Coast NSW
Robinson, Ben	08 8373 2488	
	08 8373 2442 fax	SE Australia
Rose, John	07 4661 2944	
	07 4661 5257 fax	SE Queensland
Scattini, Walter	07 3356 0863 ph/fax	Tropical and sub-tropical Australia
Scholefield, Peter	08 8373 2488	
	08 8373 2442 fax	
	018 082022 mobile	SE Australia
Scott, Peter	02 9653 1362	
	02 9653 1072 fax	Sydney region
Singh, Deo	0418 88078 mobile	
	07 3207 5998 fax	Brisbane
Slatter, John	07 4635 0726	
	07 4635 2772 fax	
	0155 88086 mobile	Australia
Smith, Kevin	03 5573 0900	
	03 5571 1523 fax	SE Australia
Smith, Stuart	03 6336 5234	
	03 6334 4961 fax	SE Australia
Snowball, Richard	08 9368 3517	Mediterranean areas of Australia
Stearne, Peter	02 9262 2611	
	02 9262 1080 fax	Sydney, ACT & NSW
Stewart, Angus	02 4325 3944 ph/fax	Sydney, Gosford
Stuart, Peter	07 4690 2666	
	07 4630 1063 fax	SE Queensland
Swane, Geoff	02 6889 1545	
	02 6889 2533 fax	
	0419 841580 mobile	Central western NSW
Sykes, Stephen	03 5051 3100	
	03 5051 3111 fax	Victoria
Syrus, A Kim	03 8556 2555	
	03 8556 2955 fax	Adelaide
Tan, Beng	08 9266 7168	
	08 9266 2495	Perth & environs
Tancred, Stephen	07 4681 2931	
	07 4681 4274 fax	
	0157 62888 mobile	QLD, NSW
Tay, David	07 5460 1313	
	07 5460 1112 fax	Australia
Topp, Bruce	07 4681 1255	
	07 4681 1769 fax	SE QLD, Northern NSW
Valentine, Bruce	02 6361 3919	
	02 6361 3573 fax	New South Wales
Van Der Ley, John	02 6561 5047	
	02 6561 5138 fax	Sydney to Brisbane and
	0417 423 768 mobile	New England area
Vertigan, Wayne	03 6336 5221	
	03 6334 4961 fax	Tasmania
Washer, Stewart	08 9300 9995	
	08 9407 5070 fax	
	0196 83642 mobile	Western Australia
Waters, Cathy	02 6888 7404	
	02 6888 7201 fax	SE Australia
Watkins, Phillip	08 9525 1800	
	08 9525 1607 fax	Perth Region
Westra Van Holthe, Jan	03 9706 3033	
	03 9706 3182 fax	Australia
Williams, Warren	64 6 356 8019 NZ	
	02 6356 8019 AUS	
	02 6351 8047 fax AUS	New Zealand
Wilson, Frances	64 3 318 8514	
	64 3 318 8549 fax	Canterbury, New Zealand
Winfield, Joel	03 9737 9660	Victoria
Winston, Ted	07 4068 8796 ph/fax	
	0412 534 514 mobile	QLD, Northern NSW and NT
Worrall, Ross	02 4348 1900	
	02 4348 1910 fax	Australia
Zorin, Clara	07 3207 4306 ph/fax	
	0418 984 555	Eastern Australia

APPENDIX 4

INDEX OF ACCREDITED NON-CONSULTANT 'QUALIFIED PERSONS'

Name
Allen, Antony
Ali, S
Baelde, Arie
Barr, Andrew
Beatson, Ron
Bell, David
Birmingham, Erika
Brennan, Paul
Breust, P
Brewer, L
Brindley, Tony
Buchanan, Peter
Bunker, John
Bunker, Kerry
Burton, Wayne
Cameron, Nick
Chin, Robert
Chivers, Ian
Clayton- Greene, Kevin
Coker, Julian
Constable, Greg
Cook, Esther
Cooper, Kath
Costin, Russell
Cox, Michael
Craig, Andrew
Crane, Peter
Cruickshank, Alan
Cummings, Dale
Dale, Gary
Davidson, Jim
Dear, Brian
de Betue, Remco
Done, Anthony
Donnelly, Peter
Downe, Graeme
Eastwood, Russell
Eisemann, Robert
Elliott, Philip
Enneking, Dirk
Fiffer, Sue
Foster, Pauline
Gibson, Peter
Gomme, Simon
Granger, Andrew
Green, Allan
Guy, Graeme
Hall, Nicola
Harden, Patrick
Hart, Ray
Higgs, Robert
Hill, Jeffrey
Hollamby, Gil
Holland, Mark
Hoppo, Sue
Howie, Jake
Huxley, Ian
Irwin, John
Jackson, B
Jaeger, M
Johnston, Christine
Jupp, Noel
Kaehne, Ian
Katelaris, A
Kebblewhite, Tony
Kennedy, Chris
Kimbeng, Collins
Knight, Ronald
Knights, Ted
Knox, Graham
Kobelt, Eric
Langbein, Sueanne
Leonforte, Tony
Lewin, Laurence
Lewis, Hartley
Liu, Chunji
Loi, Angelo
Luckett, David
Lullfitz, Robert
Macleod, Nick
Mann, Dorham
Mason, Lloyd
Mcdonald, David
Mcmaugh, P
Mendham, Neville
Menzies, Kim
Milne, Carolyn
Moody, David
Moore, Stephen
Neilson, Peter
Newman, Allen
Norriss, Michael
Oakes, John
Offord, Cathy
Oram, Rex
Patel, Narandra
Paull, Jeff
Pearce, Bob
Peppe, Ivan
Perrott, Neil
Pymer, Sally
Reid, Peter
Richardson, Maureen
Rose, Ian
Salmon, Alexander
Sammon, Noel
Sandral, Graeme
Sanewski, Garth
Schreuders, Harry
Scott, Ralph
Smith, Michael
Smith, Raymond
Smith, Sue
Song, Leonard
Tonks, John
Toyer, Christine
Titley, Michael
Trimboli, Daniel
Turner, Matthew
Vaughan, Peter
Weatherly, Lilia
Whalley, R.D.B.
Whiley, Tony
Williams, Rex
Wilson, Rob
Wilson, Stephen
Witherspoon, Jennifer
Yan, Guijun
Zeppa, Aldo

APPENDIX 5

ADDRESSES OF UPOV AND MEMBER STATES

International Union for the Protection of New Varieties of Plants (UPOV):

International Union for the Protection of New Varieties of Plants (UPOV)
34, Chemin des Colombettes
CH-1211
Geneva 20
SWITZERLAND

Phone: (41-22) 338 9111
Fax: (41-22) 733 0336
Web site: http://www.upov.int

Plant Variety Protection Offices in individual UPOV Member States:

ARGENTINA
Instituto Nacional de Semillas
Ministerio de Economia
Secretaria de Agricultura
Ganaderia y Pesca
Avda. Paseo Colon 922-3.
Piso, 1063 Buenos Aires

Phone: (54 1) 362 39 88
Fax: (54 1) 349 24 17

AUSTRALIA
Registrar
Plant Breeders Rights Office
P O Box 858
Canberra ACT 2601

Phone: (61 2) 6272 3888
Fax: (61 2) 6272 3650

AUSTRIA
Bundesamt und Forschungszentrum fur Landwirtschaft
Sortenschutzamt
Postfach 400
Spargelfeldstrasse 191
A- 1226 Wien

Phone: (43 1) 73216 4000
Fax: (43 1) 73216 4211

BELGIUM
Ministere de classes moyennes et de l'agriculture
Service de la protection des obtentions vegetales et des catalogues nationaux
Tour WTC/3- 6eme etage
Avenue Simon Bolivar 30
B-1000 Bruxelles

Phone: (32 2) 208 37 28
Fax: (32 2) 208 37 05

BOLIVIA
Direccion Nacional de Semillas
Secretaria Nacional De Agricultural y Ganaderia
Avda. 6 de Agosto 2006, Edif. V. Centenario
Casilla 4793
La Paz

Phone (591-2) 391 953
Fax: (591-2) 391 953

BRAZIL
Servico Nacional de Protecao de Cultivares-SNPC
(National Plant Varieties Protection Service)
Secretaria de Desenvolvimento Rural-SDR
Ministerio da Agricultura e do Abastedimento
Esplanada dos Ministerios, Bloco D, Anexo A
Terreo, Sala 1-12
CEP 70043-900, Brasilia, DF

Phone: (55-61) 218-2433
Fax: (55-61) 224 2842

BULGARIA
Patent Office of the Republic of Bulgaria
52 B, Dr. G. M. Dimitrov Blvd.
1113 Sofia

Phone: (359-2) 710 152
Fax: (359-2) 708 325

CANADA
The Commissioner
Plant Breeders' Rights Office
Canadian Food Inspection Agency (CFIA)
3rd Floor, East Court
Camelot Court
59 Camelot Drive
Nepean, Ontario
K1A OY9

Phone: (1 613) 225 2342
Fax: (1 613) 228 6629

CHILE
Ministerio de Agricultura
Servicio Agricola y Ganadero
Department de Semillas
Casilla 1167-21
Santiago de Chile

Phone: (56 2) 696 29 96
Fax: (56 2) 696 64 80

CHINA
The Office for the Protection of New Varieties of Plants
Ministry of Agriculture
11 Non Zhan Guan Nan Li
Beijing 10026

Phone: (86-10) 6419 3079
Fax: (86-10) 6419 2451

COLOMBIA
Instituto Colombiano Agropecuario (I.C.A)
Division de Semillas
Calle 37 No. 8-43
Santa Fe de Bogota

Phone: (57 1) 232 4697
Fax: (57 1) 232 4695

CZECH REPUBLIC
Ministry of Agriculture
External Relations Department
Tesnov 17
117 05 Prague 1

Phone: (42) 2 2181 2474
Fax: (42) 2 2181 2970

DENMARK
Afdeling for Sortsafprovning
Postbox 7
Teglvaerksvej 10, Tystofte
DK-4230 Skaelskoer

Phone: (45) 53 59 61 41
Fax: (45) 53 59 01 66

ECUADOR
División de Insumos
Ministerio de Agricultura y Ganadería
Avenida Eloy Alfaro y Amazonas
Quito

Phone: (593-2) 543 763
Fax: (593-2) 504 833

FINLAND
Plant Variety Board
Plant Variety Rights Office
PO Box 232
SF-00171 Helsinki

Phone: (358) 01 60 33 16
Fax: (358) 01 60 24 43

FRANCE
Comite de la protection des obtentions vegetales
11, rue Jean Nicot
F-75007 Paris

Phone: (331) 42 75 93 14
Fax: (331) 42 75 94 25

GERMANY
Bundessortenamt
Postfach 61 04 40
D-30604 Hannover

Phone: (49 511) 95 66 5
Fax: (49 511) 56 33 62

HUNGARY
Hungarian Patent Office
Magyar Szabadalmi Hivatal
Garibaldi-u.2-B.P. 552
H-1370 Budapest

Phone: (36 1) 112 44 00
Fax: (36 1) 131 25 96

IRELAND
Controller of Plant Breeders' Rights
Department of Agriculture and Food
Backweston
Leixlip
Co. Kildare

Phone: (353) 1 628 0608
Fax: (353) 1 628 0634

ISRAEL
Plant Breeders' Rights Council
The Volcani Center
PO Box 6
Bet-Dagan 50 250

Phone: (972) 3 968 3669
Fax: (972) 3 968 34 92

ITALY
Ufficio Italiano Brevetti e Marchi
Ministero dell'Industria, del Commercio e dell'Artigianato
19,via Molise
I-00187 Roma

Phone: (39 6) 47 05 1
Fax: (39 6) 47 05 30 35

JAPAN
Director of Seeds and Seedlings Division
Agricultural Production Bureau
Ministry of Agriculture, Forestry and Fisheries
1-2-1 Kasumigaseki – Chiyoda-ku
Tokyo 100

Phone: (81 3) 35 91 05 24
Fax: (81 3) 35 02 65 72

KENYA
Plant Breeder's Rights Office
Kenya Plant Health Inspectorate Service (KEPHIS)
Headquarters
Waiyaki Way
PO Box 49592
Nairobi

Tel: (254 –1) 44 40 29
Fax: (254-2) 44 80 40

MEXICO
Servicio Nacional de Inspection y Certification de Semillas – SNICS
Secretaria de Agricultura, Ganaderia y Desarrollo Rural
Lope de Vega 125 8· Piso
Col. Capultepec Morales
México, D.F. 11570

Phone: (52-5) 203 9427
Fax: (52-5) 250 64 83

NETHERLANDS
Raad voor het Kwekersrecht
(Borad of Plant Breeder's Rights)
Postbus 104
NL-6700 AC Wageningen

Phone: (31 317) 47 80 90
Fax: (31 317) 42 58 67

NEW ZEALAND
Commissioner of Plant Variety Rights
Plant Variety Rights Office
PO Box 130
Lincoln, Canterbury

Phone: (64 3) 325 63 55
Fax: (64 3) 325 29 46

NORWAY
Planteosortsnemnda
(The Plant Variety Board)
Fellesbygget
N-1432 As

Phone: (47) 64 94 75 04
Fax: (47) 64 94 02 08

PANAMA
Direccion General del Registro
De la Propiedad Industrial (DIGERPI)\
Ministerio de Coercio e Industrias
Apartado 9658- Zona 4
Panama 4

Phone: (507) 227 3987
Fax: (507) 227 2139

PARAGUAY
Ministerio de Agricultura y Ganaderia
Direccion de Semillas (DISE)
Gaspar R. de Francia No. 685
c/ Mcal. Estigarribia
San Lorenzo

Phone: (595) 21 58 22 01
Fax: (595) 21 58 46 45

POLAND
The Director
Research Center of Cultivars Testing (COBORU)
63-022 Slupia Wielka

Phone: (48 667) 535 58 or 523 41
Fax: (48 667) 535 58

PORTUGAL
Centro Nacional de Registo de Variedades Protegidas (CENARVE)
Edificio II da CNPPA
Tapada da Ajuda
P-1300 Lisboa

Phone: (351) 1 362 16 07
Fax: (351) 1 362 16 06

REPUBLIC OF MOLDOVA
State Commission for Crops Variety Testing and Registration
Ministry of Agriculture
Bul. Stefan Cel Mare 162
C.P. 1873
2004 Chisinau

Phone: (373-2) 24 62 22
Fax: (373-2) 24 69 21

RUSSIAN FEDERATION
State Commission of the Russian Federation
for Selection Achievements Test and Protection
Orlicov per., 3a
107139 Moscow

Phone: (70-95) 204 49 26
Fax: (70-95) 207 86 26

SLOVAKIA
Ministry of Agriculture
Dodrovicova 12
812 66 Bratislava

Phone: (42) 736 85 61
Fax: (42) 745 62 94

SLOVENIA
Ministry of Agriculture, Forestry and Food
Dunajska
1000 Ljubljana

Phone: (386-61) 178 9117
Fax: (386-61) 178 9120

SOUTH AFRICA
National Department of Agriculture
Directorate of Plant and Quality Control
Private Bag X 258
Pretoria 0001

Phone: (27 12) 319 7202
Fax: (27 12) 319 7279

SPAIN
Registro de Variedades
Subdireccion General de Semillas y Plantas de Vivero
Jose Abascal, 4
E-280003- Madrid

Phone: (34 1) 347 66 00
Fax: (34 1) 594 27 68

SWEDEN
Statens vaxtsortnamnd
(National Plant Variety Board)
Box 1247
S-171 24 Solna

Phone: (46) 8 783 12 60
Fax: (46) 8 833 170

SWITZERLAND
Bundesamt fur Landwirtschaft
Buro fur Sortenschutz
Mattenhofstr. 5
CH-3003 Bern

Phone: (41 31) 322 25 24
Fax: (41 31) 322 26 34

TRINIDAD AND TOBAGO
Controller (Ag)
Intellectual Property Office
Ministry of Legal Affairs
34 Frederick Street
Port of Spain

Phone: (1 868) 625 9972
Fax: (1 868) 624 1221

UKRAINE
State Patent Office of Ukraine
8 Lvov Square
254655 Kiev 53, GSP- 655

Phone: (880 44) 212 50 82
Fax: (880 44) 212 34 49

UNITED KINGDOM
The Plant Variety Rights Office
White House Lane
Huntingdon Road
Cambridge CB3 OLF

Phone: (44 1223) 34 23 81
Fax: (44 1223) 34 23 86

UNITED STATES OF AMERICA
(For PVP)
The Commissioner
Plant Variety Protection Office
Agricultural Marketing Service
Department of Agriculture
Beltsville, Maryland 20705-2351

Phone: (1 301) 504 55 18
Fax: (1 301) 504 52 91

(For Plant Patent)
The Commissioner of Patents and Trademarks
Patent and Trade Mark Office
Box 4
Washington DC 20231

Phone: (1 703) 305 93 00
Fax: (1 703) 305 88 85

URUGUAY
Ministerio de Ganaderia, Agricultura y Pesca
Direccion General -Servicios Agricolas
Unidad de Semillas
Ava. Milan 4703
12.900 Montevideo

Phone: (59 82) 309 79 24
Fax: (59 82) 39 60 53

EUROPEAN UNION
(for applications filed within the EU)

Community Plant Variety Office
P.O. Box 2141
F-49021 Angers Cedex
FRANCE

Phone: (33 2) 41 36 84 50
Fax: (33 2) 41 36 84 60

CURRENT STATUS OF PLANT VARIETY PROTECTION LEGISLATURE IN UPOV MEMBER COUNTRIES

Argentina[2]
Australia[3]
Austria[2,4]
Belgium[1,4]
Bolivia[2]
Brazil[2]
Bulgaria[3]
Canada[2]
Chile[2]
China[2]
Columbia[2]
Czech Republic[2]
Denmark[3,4]
Ecuador[2]
Finland[2,4]
France[2,4]
Germany[3,4]
Hungary[2]
Ireland[2,4]
Israel[3]
Italy[2,4]
Japan[3]
Kenya[2]
Mexico[2]
Netherlands[3,4]
New Zealand[2]
Norway[2]
Panama[2]
Paraguay[2]
Poland[2,5]
Portugal[2,4]
Republic of Moldova[3]
Russian Federation[3]
Slovakia[2,5]
Slovenia[5]
South Africa[2,5]
Spain[1,4]
Sweden[3,4]
Switzerland[2]
Trinidad and Tobago[2]
Ukraine[2]
United Kingdom[3,4]
USA[3]
Uruguay[2]
(Total 44)

1 Bound by the 1961 Act as amended by the Additional Act of 1972.

2 Bound by the 1978 Act.

3 Bound by the 1991 Act.

4 Member of the European Community which has introduced a (supranational) Community plant variety rights system based upon the 1991 Act.

5 Has already amended its law to conform to the 1991 Act; most other states are in the process of doing so.

APPENDIX 6

CENTRALISED TESTING CENTRES
Under Plant Breeder's Rights Regulations introduced in 1996, establishments may be officially authorised by the PBR office to conduct test growings. An authorised establishment will be known as Centralised Test Centre (CTC).

Usually, 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 are now available which will 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 use 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 its fees 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.

Establishments wishing to be authorised as a CTC 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.

APPLICATIONS FOR AUTHORISATION 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.

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 analysed 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 in 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

Unless exempted in writing by the PBR office operators of a CTC must be 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 the owners of the varieties included in the trial.

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. Special circumstances may exist (environmental factors, quarantine etc) to allow more than one CTC per genus, though a special case will need to be made to the PBR office. More than one CTC maybe allowed for roses.

One CTC may be authorised to test more than one genus. Authorisations for each genus will be reviewed periodically.

Authorised Centralised Test Centres (CTCs)

Following publication of applications for accreditation and ensuing public comment, the following organisations/individuals are authorised to act as CTCs. Any special conditions are also listed.

Name	Location	Approved Genera	Facilities	Name of QP	Date of accreditation
Agriculture Victoria, National Potato Improvement Centre	Toolangi, VIC	Potato	Outdoor, field, greenhouse, tissue culture laboratory	R Kirkham G Wilson	31/3/97
Bureau of Sugar Experiment Stations	Cairns, Tully, Ingham, Ayr, Mackay, Bundaberg, Brisbane QLD	*Saccharum*	Field, glasshouse, tissue culture, pathology	M Cox	30/6/97
Ag-Seed Research	Horsham and other sites	Canola	Field, glasshouse, shadehouse, laboratory and biochemical analyses	G Kadkol	30/6/97
Agriculture Western Australia	Northam WA	Wheat	Field, laboratory	D Collins	30/6/97

University of Sydney, Plant Breeding Institute	Camden, NSW	*Argyranthemum, Diascia, Mandevilla*, Oats	Outdoor, field, irrigation,greenhouses with controlled micro-climates, controlled environment rooms, tissue culture, molecular genetics and cytology lab.	J Oates	30/6/97
Boulters Nurseries Monbulk Pty Ltd	Monbulk, VIC	Clematis	Outdoor, shadehouse, greenhouse	M Lunghusen	30/9/97
Geranium Cottage Nursery	Galston, NSW	Pelargonium	Field, controlled environment house	I Paananen	30/11/97
Agriculture Victoria	Hamilton, VIC	*Perennial ryegrass, tall fescue, tall wheat grass, white clover, persian clover*	Field, shadehouse, glasshouse, growth chambers. Irrigation Pathology and tissue culture. Access to DNA and molecular marker technology. Cold storage.	V Gellert M Anderson	30/6/98
Koala Blooms	Monbulk, VIC	*Bracteantha*	Outdoor, irrigation	M Lunghusen	30/6/98
Redlands Nursery	Redland Bay, QLD	*Aglaonema*	Outdoor, shadehouse, glasshouse and indoor facilities	K Bunker	30/6/98
Protected Plant Promotions	Macquarie Fields, NSW	New Guinea Impatiens including *Impatiens hawkeri* and its hybrids	Glasshouse	I Paananen	30/9/98
University of Queensland, Gatton College	Lawes, QLD	Some tropical pastures	Field, irrigation, glasshouse, small phytotron, plant nursery & propagation, tissue culture, seed and chemical lab, cool storage	D Hanger	30/9/98
Jan and Peter Iredell	Moggill, QLD	Bougainvillea	Outdoor, shadehouse	J Iredell	30/9/98
Protected Plant Promotions	Macquarie Fields, NSW	*Verbena*	Glasshouse	I Paananen	31/12/98
Avondale Nurseries Ltd	Glenorie, NSW	*Agapanthus*	Greenhouse, tissue culture with commercial partnership	I Paananen	31/12/98
Paradise Plants	Kulnura, NSW	*Camellia, Lavandula, Osmanthus, Ceratopetalum*	Field, glasshouse, shadehouse, irrigation, tissue culture lab	J Robb	31/12/98
Prescott Roses	Berwick, VIC	*Rosa*	Field, controlled environment greenhouses	C Prescott	31/12/98
F & I Baguley Flower and Plant Growers	Clayton South, VIC	*Euphorbia*	Controlled glasshouses, quarantine facilities, tissue culture	G Guy	31/3/99

The following applications are pending:

Name	**Location**	**Genera applied for**	**Facilities**	**Name of QP**
Outeniqua Nursery	Monbulk, VIC	Unspecified	Outdoor, glasshouse	
University of Queensland, Gatton College	Lawes, QLD	Ornamental & bedding sp., wheat, millet, *Prunus, Capsicum, Glycine, Ipomea, Vigna*, *Lycopersicon,* Asian vegetables, Tropical fruits, *Solanum*	Field, irrigation, glasshouse, small phytotron, plant nursery & propagation, tissue culture, seed and chemical lab, cool storage	L Bahnisch R Fletcher D George M Johnston G Lewis G Porter D Tay A Wearing D Hanger

Comments (both for or against) either the continued accreditation of a CTC or applications to become a CTC are invited. Written comments are confidential and should be addressed to:

The Registrar
Plant Breeders Rights Office
PO Box 858
CANBERRA ACT 2601
Fax (02) 6272 3650

Closing date for comment: 31 March 2000.

APPENDIX 7

LIST OF CLASSES FOR VARIETY DENOMINATION PURPOSES[1]
As amended by the Council at its twenty-fifth ordinary session, on October 25, 1991.

[Recommendation 9

For the purposes of the fourth sentence of Article 13(2) of the Convention, all taxonomic units are considered closely related that belong to the same botanical genus or are contained in the same class in the list in Annex I to these Recommendations.]

Note: Classes which contain subdivisions of a genus may lead to the existence of a complementary class containing the other subdivisions of the genus concerned (example: Class 9 (Vicia faba) leads to the existence of another class containing the other species of the genus Vicia).*

Class 1: Avena, Hordeum, Secale, xTriticosecale, Triticum

Class 2: Panicum, Setaria

Class 3: Sorghum, Zea

Class 4: Agrostis, Alopecurus, Arrhenatherum, Bromus, Cynosurus, Dactylis, Festuca,Lolium, Phalaris, Phleum, Poa, Trisetum

Class 5: Brassica oleracea, Brassica chinensis, Brassica pekinensis

Class 6: Brassica napus, B. campestris, B. rapa, B. juncea, B. nigra, Sinapis

Class 7: Lotus, Medicago, Ornithopus, Onobrychis, Trifolium

Class 8: Lupinus albus L., L. angustifolius L., L. luteus L.

Class 9: Vicia faba L.

Class 10: Beta vulgaris L. var. alba DC., Beta vulgaris L. var. altissima

Class 11: Beta vulgaris ssp. vulgaris var. conditiva Alef. (syn.: Beta vulgaris L. var. rubra L.), Beta vulgaris L. var. cicla L., Beta vulgaris L. ssp. vulgaris var. vulgaris

Class 12: Lactuca, Valerianella, Cichorium

Class 13: Cucumis sativus

Class 14: Citrullus, Cucumis melo, Cucurbita

Class 15: Anthriscus, Petroselinum

Class 16: Daucus, Pastinaca

Class 17: Anethum, Carum, Foeniculum

Class 18: Bromeliaceae

Class 19: Picea, Abies, Pseudotsuga, Pinus, Larix

Class 20: Calluna, Erica

Class 21: Solanum tuberosum L.

Class 22: Nicotiana rustica L., N. tabacum L.

Class 23: Helianthus tuberosus

Class 24: Helianthus annuus

Class 25: Orchidaceae

Class 26: Epiphyllum, Rhipsalidopsis, Schlumbergera, Zygocactus

Class 27: Proteaceae

COMPLEMENTARY CLASSES

Class 28: Species of Brassica other than
(in Class 5 + 6) Brassica oleracea, Brassica chinensis, Brassica pekinensis + Brassica napus, B. campestris, B. rapa, B. juncea, B. nigra, Sinapis

Class 29: Species of Lupinus other than
(in Class 8) Lupinus albus L., L. angustifolius L., L. luteus L.

Class 30: Species of Vicia other than
(in Class 9) Vicia faba L.

Class 31: Species of Beta + subdivisions of the species Beta vulgaris other than
(in Class 10 +11) Beta vulgaris L. var. alba DC., Beta vulgaris L. var. altissima + Beta vulgaris ssp. vulgaris var. conditiva Alef. (syn.: Beta vulgaris L. var. rubra L.), Beta vulgaris L. var. cicla L., Beta vulgaris L. ssp. vulgaris var. vulgaris

Class 32: Species of Cucumis other than
(in Class 13 + 14) Cucumis sativus + Citrullus, Cucumis melo, Cucurbita

Class 33: Species of Solanum other than
(in Class 21) Solanum tuberosum L.

Class 34: Species of Nicotiana other than
(in Class 22) Nicotiana rustica L., N. tabacum L.

Class 35: Species of Helianthus other than
(in Class 23 + 24) Helianthus tuberosus + Helianthus annuus.

* The complementary classes have been added by the Office of the Union for the convenience of the reader and are given the numbers 28 to 35.

1 From UPOV RECOMMENDATIONS ON VARIETY DENOMINATIONS, Adopted by The Council of UPOV on October 16, 1987, and amended on October 25, 1991

APPENDIX 8

REGISTER OF PLANT VARIETIES

Register of Plant Varieties contains the legal description of the varieties granted Plant Breeder's Rights. Under section 62(1) of the *Plant Breeder's Rights Act 1994* a person may inspect the Register at any reasonable time. Following are the contact details for registers kept in each state and territories.

South Australia
Ms Lisa Halskov
AQIS
8 Butler Street
PORT ADELAIDE SA 5000
Phone 08 8305 9706

Western Australia
Mr Geoffrey Wood
AQIS
Level, Wing C
Market City
280 Bannister Road
CANNING VALE WA 6154
Phone 08 9311 5407

New South Wales
Mr. Alex Jabs
General Services
AQIS
2 Hayes Road
ROSEBERY NSW 2018
Phone 02 9364 7293

Victoria and Tasmania
Mr. Colin Hall
AQIS
Building D, 2nd Floor
World Trade Centre
Flinders Street
MELBOURNE VIC 3005
Phone 03 9246 6810

Queensland
Mr. Ian Haseler
AQIS
2nd Floor
433 Boundary Street
SPRING HILL QLD 4000
Phone 07 3246 8755

Australian Capital Territory and Northern Territory
ACT and NT Registers are kept in the Library of PBR Office in Canberra
Phone 02 6272 4228

Register of Australian Winter Cereal Cultivars

Varietal Descriptions from the Voluntary Scheme for the Registration of Cereal Cultivars

Some procedural changes have been implemented in the operations of the Voluntary Cereal Registration Scheme. The Plant Breeder's Rights (PBR) office and the Voluntary Cereal Registration Scheme are collaborating to ensure that descriptions of new varieties, whether they are protected by PBR or not, are made available.

The *Plant Varieties Journal* now includes descriptions of cultivars registered under the Voluntary Cereal Registration Scheme. **Please note that publishing a description in the *Plant Varieties Journal* does not automatically qualify a cultivar to be protected under Plant Breeder's Rights (PBR). PBR is entirely a different scheme and there are specific requirements under the *Plant Breeder's Rights Act 1994* which must be satisfied to be eligible for registration under PBR.** However, it is possible that some cultivars published in this section of the journal are also registered under PBR. When a cultivar is registered under both schemes, the current PBR status of the cultivar is indicated in the descriptions.

A Check list for Registering New Cereal Cultivars in the Voluntary Scheme

Breeders considering submitting a new variety to the voluntary scheme should:

1. Clear the proposed name with Australian Winter Cereal Collection (AWCC). The AWCC will query available information systems to ensure that the proposed name will not be confused with other cultivars of the same group and issue a **registration number**. The timeframe for this process will usually be less than 24 hours, and can be done by phone, fax or by e-mail.

2. Complete a **registration form,** including the registration number and forward the form to the Voluntary Cereal Registration Scheme **–** either by an e-mail attachment or by ordinary mail on a 3.5 inch a IBM formatted floppy diskette. The breeders will be notified of the acceptance for a new registration within one week of its receipt.

3. Send an *untreated* one kilogram (1 kg) reference (or type) **sample of seed** to the Voluntary Cereal Registration Scheme for long term storage in the AWCC. Please indicate if there are any restrictions on the distribution of this seed. Unless advised to the contrary it will be assumed that seed samples of registered cultivars can be freely distributed by the AWCC to *bona fide* scientists for research purposes.

4. Provide a **description of the new cultivar** for publication in the *Plant Varieties Journal* and send it to the Voluntary Cereal Registration Scheme in Word for Windows or in RTF format **–** either by an e-mail attachment or by ordinary mail on a 3.5 inch a IBM formatted floppy diskette. In general, a description should contain the following headings:

- Common name
- Botanical name
- Cultivar name
- Registration number
- Registration date
- Name and address of Originators
- Name and address of Registrar of Cereal Cultivars
- Released by
- Synonyms (if any)
- Parentage
- Breeding and selection
- Morphology
- Disease Reaction
- Yield
- Quality
- PBR Status (if any)
- Acknowledgment (if any)
- Breeder

In addition, you may also include other headings if they are relevant to the description of the variety. Please follow the general style and format of the descriptions published in the current issue. Please note: always format your description in a single column, **do not format in two columns**. Columns will be formatted during the publication process.

The **Voluntary Cereal Registration Scheme** will electronically forward your description to the *Plant Varieties Journal* for publication. *Plant Varieties Journal* reserves the right for editorial corrections and the edited versions will be forwarded to the breeder for review before the final publication. Publication cost will be charged on a cost recovery basis with invoices sent directly from the PBR office to the breeder. The nominal cost will be $400.00 (four hundred dollars) per variety.

There is no descriptions from the Voluntary Cereal Registration Scheme included in this issue.

Contact information

Registration

Voluntary Cereal Registration Scheme
C/- Australian Winter Cereals Collection
RMB 944, Calala Lane
TAMWORTH NSW 2340

Phone: (02) 6763 1149
Fax: (02) 6763 1154
e-mail: mackaym@agric.nsw.gov.au

Publication

Registrar PBR
Plant Breeder's Rights Office
GPO Box 858
CANBERRA ACT 2601

Phone: (02) 6272 4228
Fax: (02) 6272 3650
e-mail: Doug.Waterhouse@affa.gov.au

CUMULATIVE INDEX

Cumulative Index for PVJ Volumes 1(1) - 12(4)

Legend: PVJ Vol (No) page number

Index of articles

Index of varieties

Numbers in each column refer to the volume, issue and page number of the Plant Varieties Journal in which the variety appears. For example 8(3) 4 refers to *Plant Varieties Journal* volume 8 issue 3 page 4. Where no public notice is indicated, either the description is the first public notice of acceptance of that variety, a name change has occurred, or the application was withdrawn prior to acceptance. A † symbol following the variety name indicates that the name of the variety has changed and reference to the change appears in the 'Varied' column.

	Public Notice	Description	Grant	Varied	Withdrawn/ Surrendered/ Revoked/ Refused	Corrigenda
Abelia						
xgrandiflora						
'Short & Sweet'	12(3) 9					
Abutilon						
xhybridum						
'Golden Bell'	8(3) 4	9(1) 11	9(4) 55			
Acacia						
boormanii						
'Olympic Gold'	6(4) 8	9(3) 66	10(4) 63	10(3) 56		
cardiophylla						
'Gold Lace'	2(2) 31	2(2) 26	3(1) 4	3(1) 37		
'Kuranga Gold Lace'†				3(1) 37		
cognata						
'Green Mist'	5(2) 35	6(4) 19	7(4) 39			
'UY2'	12(4) 13					
'UY3'	12(4) 13					
leprosa						
'RBGM801'	11(3) 10					
terminalis						
'Tasmanian Pink'	3(4) 38				10(1) 50	
Acalypha						
hybrid						
'Pink Candles'	2(4) 39	2(4) 23	3(3) 5			
Acer						
palmatum						
'Crimson Prince'	3(3) 26				6(1) 31	
rubrum						
'Fairview Flame'	9(4) 10					

	Public Notice	Description	Grant	Varied	Withdrawn/ Surrendered/ Revoked/ Refused	Corrigenda
truncatum x *platanoides*						
'Keithsform' syn						
Norwegian Sunset	6(2) 33	10(1) 21	10(4) 62	11(1) 65		
'Warrenred' syn						
Pacific Sunset	6(2) 33	10(1) 21	10(4) 62	11(1) 65		
Acmena						
smithii						
'Hot Flush'	11(2) 14	11(3) 23		12(3) 57		
'Bullock Creek'†				12(3) 57		
'Hedgemaster'	7(1) 7	9(2) 28	10(2) 56			
Actinidia						
chinensis						
'Hort16A'	11(3) 11					
deliciosa						
'Tomua'	11(3) 11	12(4) 43				
Actinotus						
helianthi						
'Starbright'	10(2) 11	12(4) 41				
'Federation Star'					12(4) 102	
Aeschynomene						
americana						
'Lee'	5(4) 33	8(1) 8	8(4) 49			
villosa						
'Kretschmer'	9(3) 12					
'Reid'	9(3) 12					
Agapanthus						
hybrid						
'Fragrant Blue'	12(3) 9					
orientalis						
'Black Panther'†				12(1) 72		
'Black Pantha'	11(3) 9	12(1) 14	12(4) 98	12(1) 72		
'Fragrant Snow'	11(3) 9					
'Glen Avon' syn						
Fragrant Glen	11(3) 9					
'Lavender Haze'	12(3) 9					
'Regal Beauty'	12(3) 9					
praecox x orientalis						
'Silver Sword'	12(3) 9					
'Snow Storm'†				11(2) 55		
'Snowstorm'	2(1) 15	11(1) 10		11(2) 55 11(3) 54 12(3) 57		
'Variegated Wilken'	12(4) 10					
Aglaonema						
commutatum						
'Jubilee Green'	10(1) 8	10(2) 16	11(1) 62			
'Rembrandt'	10(1) 8	10(2) 16	11(1) 62			
costatum var. *foxii*						
'Northern Lightning'	7(1) 5	9(4) 11	10(3) 52			
hybrid						
'Amelia'	12(2) 10					
'Brilliant Beauty'	11(2) 12	12(3) 13				
'Compact Maria'	10(2) 10	10(4) 16	11(3) 51			
'Green Majesty'	12(2) 10					
'Grey Dawn'	11(2) 12	12(3) 14				
'Lisa Joy'	11(2) 12	12(3) 15				
'Mary Ann'	12(2) 10					
'Painted Princess'	12(2) 10					
'Pride Of Sumatra'	8(4) 5	10(2) 18	11(1) 62			

	Public Notice	Description	Grant	Varied	Withdrawn/ Surrendered/ Revoked/ Refused	Corrigenda
'Royal Ripple'	12(2) 10					
'Silver Rain'	11(2) 12	12(3) 16				
'Silver Queen Compact' syn Silver Lady	10(2) 10	10(4) 16	12(1) 69	11(2) 56		
nitidum						
'Rhapsody in Green'	12(1) 10	12(3) 15				
'Queen Of Siam' syn April In Paris	9(3) 9	10(2) 16	11(1) 62	9(3) 73		
Agonis						
flexuosa						
'Forest Magic'	10(3) 10	11(4) 37				
'Jervis Bay Afterdark'	10(4) 13	11(1) 54	11(4) 52			
'Peppermint Cream'	6(1) 28			6(4) 54	7(2) 29	
'Pink Flush'†					6(4) 54	
'Royal Flush'	5(4) 34				7(3) 49	
'Southern Wonder'	9(2) 5	10(2) 21	11(2) 55			
flexuosa nana						
'Pink Peppy'	10(4) 13				12(1) 73	
Allium						
cepa						
'Lucy's Mild Brown'	12(3) 11					
'Orbex' syn UW 160	5(1) 25				7(3) 49	
Allocasuarina						
littoralis						
'Matuka Silver'	8(4) 5	12(1) 26	12(4) 101	9(1) 37		
Alnus						
jorullensis						
'Royal Cascade' syn Weeping Willy	4(4) 23	5(4) 14	7(1) 32	5(3) 21		6(1) 32
Alstroemeria						
aurea						
'583 JA'	9(3) 9	9(4) 12	10(3) 52			
'Aruba'	8(3) 4	8(3) 8	9(2) 60	10(1) 50		
'Felicity'	7(1) 5	7(4) 22	8(3) 51		11(3) 54	
'Java'	8(3) 4	8(3) 9	9(2) 60			
'Yellow Luna'	8(4) 5	9(4) 13	10(3) 52			
hybrid						
'587B'	9(1) 4	9(4) 12	10(3) 52			
'Alaska'	7(2) 5	7(4) 19	8(3) 51	12(3) 57		
'Amazon' syn Inca Spice	11(3) 9	12(2) 18		12(2) 70		
'Andes'	7(1) 6	8(1) 6	8(4) 48			
'Atlanta'	7(2) 5	7(4) 19	8(3) 51	12(3) 57		
'Ballet'	10(2) 10	11(2) 16	12(4) 98	12(1) 72 12(2) 71		
'Carise Miami'†				12(2) 70		
'Cavalier'	4(3) 26	7(2) 13	9(3) 70		11(4) 55	
'Cobra'	7(1) 7	8(1) 7	8(4) 48			
'Delta' syn Inca Salsa	11(3) 9	12(2) 17		12(2) 70		
'Diana'	7(4) 6	9(4) 13	10(4) 61		12(1) 73	
'Evita'	8(3) 4	10(2) 18	11(2) 52	12(3) 57		
'First Love'	8(2) 2	10(3) 12	11(2) 52			
'Flamengo'	5(4) 34	7(4) 16	8(3) 51	12(3) 57		
'Gloria'	7(2) 4	7(4) 18	8(3) 51		10(3) 56	
'Golden Delight'	4(3) 26	7(2) 13	9(3) 70		11(4) 55	
'Iberia'	7(2) 4	7(4) 18	8(3) 51		10(3) 56	
'Ibiza'	9(1) 4	9(3) 13	10(2) 55			
'Inca Blaze'	12(2) 10					
'Inca Charm'	11(3) 9					
'Inca Delight'	11(3) 9					

	Public Notice	Description	Grant	Varied	Withdrawn/ Surrendered/ Revoked/ Refused	Corrigenda
'Inca Gold'	12(2) 10					
'Inca Moonlight'	12(2) 10					
'Inca Salsa' syn Delta†				12(2) 70		
'Inca Spice' syn Yellow Amazon†				12(2) 70		
'Inca Sunset'	12(2) 10					
'Konona 90-2-2'	11(3) 9					
'La Paz'	2(4) 39	3(2) 13	4(2) 4			
'Little Moon'	10(4) 15	12(1) 15	12(4) 98	12(2) 71		
'Little Star'	8(3) 4	10(2) 19	11(2) 52	12(3) 57		
'Little Sun'	8(3) 4	10(2) 19	11(2) 52	12(3) 57		
'Miami' syn Carise Miami	11(3) 9	12(2) 12		12(1) 73 12(2) 70		
'Minerva'	7(1) 6	8(1) 8	8(4) 49			
'My Virginia'†				12(1) 72		
'Nevada'	5(4) 34	7(4) 17	8(3) 51	12(3) 57		
'Orange Delight'	4(3) 26	7(2) 13	9(3) 70		12(3) 57	11(4) 56
'Our Ballet'†				12(1) 72		
'Paloma'	2(4) 39	3(2) 13	4(2) 4			
'Fantasy'	11(3) 9					
'Pink Roma'†				12(2) 70		
'Roma' syn Pink Roma	11(3) 9	12(2) 19		12(2) 70		
'Sangria'	2(4) 39					
'Savannah	12(4) 10 4(3) 26	5(2) 10	7(1) 32			
'Serena'	2(4) 39	3(3) 7	4(3) 6			
'Soleil'	11(3) 10	12(2) 70				
'Stabec' syn Rebecca	7(3) 5	9(1) 8	9(4) 55	11(3) 54		
'Stabecor' syn Sunny Rebecca	12(3) 9					
'Stabelin' syn Belinda	10(4) 10	12(1) 15	12(4) 98	11(3) 54 12(4) 102		
'Stabelin' syn Madeline†				12(4) 102		
'Stabelstri' syn Fabiola	3(2) 34	3(4) 12			7(2) 29	
'Stabuwit' syn Amanda	3(2) 34	3(4) 11	7(4) 39			
'Stadutia' syn Tiara	3(2) 34	3(4) 9	4(4) 4			
'Stajugro' syn Barbara	3(2) 34	3(4) 14			6(1) 7	
'Stajured' syn Claudia	4(1) 25				5(1) 26	
'Stakrist' syn Kristina	10(2) 10	10(4) 17	11(3) 51	11(3) 54		
'Stalan' syn Annabel	3(2) 34	3(4) 6	4(4) 4		6(1) 7	
'Stalauli' syn Raffaela†				11(3) 54 12(4) 102		
'Stalauli' syn Laura	10(4) 10	12(4) 15		12(4) 102		
'Stalbel' syn Libelle	3(2) 34	3(4) 12	4(4) 5			
'Stalibla' syn White Libelle	3(2) 34	3(4) 13	6(1) 7		12(4) 102	
'Stalibron' syn Butterscotch	3(2) 34	3(4) 9	4(4) 4		6(1) 7	
'Stalilas' syn Jubilee	3(2) 34	3(4) 14	6(1) 7		12(4) 102	
'Stalog' syn Olga	12(3) 9					
'Stalona' syn Ilona	10(2) 10	10(4) 17	11(3) 51	11(3) 54		
'Staloren' syn Lorena	12(3) 10					
'Stalove' syn Amor	6(3) 44	9(1) 9	9(4) 55	11(3) 54		
'Stalra' syn Tamara	12(3) 10					
'Stalsam' syn Samora	3(2) 34	3(4) 10	4(4) 4			
'Stalsunny' syn Sunny Rebecca					12(2) 71	
'Stalvir' syn Carola	3(2) 34	3(4) 7	4(4) 4		12(4) 102	
'Stamial' syn Pink Minetti	10(4) 10			11(3) 54		
'Stamond'	8(4) 5	9(3) 13	10(2) 55	11(3) 54		
'Stanata' syn Natasja	10(4) 10	12(3) 17		11(3) 54		
'Staprilan' syn Angela	10(4) 10			11(3) 54		
'Staprimar' syn Margaret	12(2) 10					
'Staprimil' syn Emily	10(4) 10	12(1) 17	12(4) 98	11(3) 54		

	Public Notice	Description	Grant	Varied	Withdrawn/ Surrendered/ Revoked/ Refused	Corrigenda
'Staprimon' syn Monica	10(4) 10	12(1) 17	12(4) 98	11(3) 54		
'Staprinag' syn Ragna	10(4) 10	12(1) 18	12(4) 98	11(3) 54		
'Stapripal' syn Paola	12(2) 10					
'Stapripur' syn Mira	4(1) 25	9(1) 9	9(4) 55	11(3) 54		
'Staprisis' syn Sissi	10(4) 10	12(1) 19	12(4) 98	11(3) 54		
'Stapristef' syn Stephanie	12(2) 10					
'Staprizsa' syn Zsa Zsa	10(4) 10	12(1) 20	12(4) 98	11(3) 54		
'Stapula'	8(4) 5	10(2) 19	11(1) 62	11(3) 54		
'Stapurzul' syn Azula	3(2) 34	3(4) 15	7(4) 39		12(4) 102	
'Staranlo' syn Vera	4(1) 25				5(1) 26	
'Starexan' syn Xandra	10(4) 10	12(4) 16				
'Staronic' syn Veronica	3(2) 34	3(4) 7	7(4) 39	11(3) 54	12(4) 102	
'Starover' syn Olivia	3(2) 34	3(4) 8	4(4) 5		12(4) 102	
'Stasabi' syn Sabina	10(4) 10	12(3) 17		11(3) 54		
'Stasach' syn Sacha	8(4) 5	9(3) 14	10(2) 55	11(3) 54		
'Stasilva' syn Silvia	4(1) 25				5(1) 26	
'Staterpa' syn Marita	4(1) 25				6(2) 35	
'Statiren' syn Irena	8(4) 5	9(3) 15	10(2) 55	11(3) 54		
'Staverpi' syn Fiona	3(2) 34	3(4) 8	6(1) 7			
'Stayeli' syn Yellow Libelle	3(2) 34	3(4) 10	7(4) 39		12(4) 102	
'Stayelor' syn Helios	3(2) 34	3(4) 11	7(4) 39			
'Sydney'	6(2) 33	7(1) 28	8(1) 38			
'Testapink' syn Pink Sapphire†				11(3) 54 12(4) 102		
'Testapink' syn Pink Diamond	10(4) 10	12(4) 17		12(4) 102		
'Toscana'	7(2) 5	7(4) 19	8(3) 51	12(3) 57		
'Victoria'	5(4) 34	7(4) 17	8(3) 51	12(3) 57		
'Vienna'	9(1) 4	9(3) 15	10(2) 55			
'Virginia'	10(2) 10	11(2) 16	12(4) 99	12(1) 72 12(2) 71		
'Wilhelmina'	2(4) 39	3(3) 6	4(3) 6			
'Zanta' syn Violetta	7(4) 6	10(2) 20	11(2) 52	12(3) 57		
'Zelblanca' syn Bianca	3(2) 32	3(4) 13			7(2) 29	
'Zelpado' syn Jupiter	3(2) 34	3(4) 15			7(2) 29	
'Zelrosa' syn Pink Jewel	3(2) 34	3(4) 16			6(1) 7	
Angophora						
costata						
'Little Gumball'	9(4) 10	11(1) 44		10(2) 59		
'Spit Fire'†				10(2) 59		
Anigozanthos						
bicolor x humilis						
'Masquerade'	3(4) 38	3(4) 27			7(3) 49	
hybrid						
'Bush Ember'	7(2) 6	8(3) 15	9(2) 61			
'Bush Garnet'	10(2) 12	12(1) 32				
'Bush Heritage'	7(2) 6	8(3) 16	9(2) 61			
'Bush Ochre'	7(2) 6	8(3) 17	9(2) 61			
'Bush Pearl'	10(2) 12	12(4)				
'Bush Splendour'	7(2) 6	8(3) 18	9(2) 61			
'Bush Sunshine'	7(2) 6				8(3) 53	
'Bush Twilight'	7(2) 6	8(3) 19	9(2) 61			
'Firefly'	1(4) 23	1(4) 10	2(4) 5		7(3) 49	
'Joey Confetti' 1385(C), H31	7(3) 8	7(3) 44	9(3) 71		10(4) 65	
'Joey Fireworks' syn 1377(A), H30	7(3) 8	7(3) 45	11(1) 63			
'Joey Lipstick'	8(4) 6	9(3) 31	10(2) 56			
'Joey Rouge' syn 1599(A)	7(3) 8					
'Lemon Whizz'	3(4) 38	4(3) 18	5(3) 5	4(1) 25	7(3) 49	

	Public Notice	Description	Grant	Varied	Withdrawn/ Surrendered/ Revoked/ Refused	Corrigenda
'Milky Way'†				4(1) 25		
pulcherrimus x *rufus*						
'Sunglow'	6(4) 8	9(2) 26				
rufus						
'Kings Park Federation Flame'	10(2) 12	11(4) 26	12(3) 55			
viridis						
'Green Dragon'	10(4) 12	11(3) 22	12(2) 68			
viridis x *manglesii*						
'Uluru Sunset'	3(4) 38	3(4) 28			7(3) 49	
Anopterus						
glandulosus						
'Picton River Pink' syn Southern Pink	8(1) 6				10(3) 56	
Anthurium						
andraeanum						
'Champion'	8(4) 6	10(1) 12	10(4) 61	9(4) 57 10(4) 64		
hybrid						
'Ruth Morat' syn Lady Ruth	7(3) 6	9(3) 17	10(2) 55			
scherzerianum						
'Arabella' syn Arndt's Flamenco Arabella	4(1) 25	4(1) 14	4(4) 5			
Apium						
prostratum						
'Southern Ocean'	9(2) 9					
Arachis						
hypogaea						
'Conder'	12(1) 12	12(2) 38				
'Roberts'	12(1) 12	12(2) 38				
'Shosh'	8(1) 5	10(1) 29	10(4) 62			
pintoi						
'Amarillo'	2(4) 39	2(4) 28	3(3) 6			
Arenaria						
montana						
'White Pearls'	7(2) 7	8(4) 48	9(3) 73		11(4) 55	
Argyranthemum						
frutescens						
'Abby Belle'	10(3) 10	11(2) 29	12(1) 70			
'Amy Belle'	10(3) 10	11(2) 29				
'Annie Petite'	10(1) 10	11(2) 29	12(1) 70			10(1) 51
'Beth'	9(4) 9	11(2) 29	12(1) 70			10(1) 51
'Carmella'	9(2) 7	9(2) 28	10(1) 48			
'Christy Belle'	10(3) 10	11(2) 30	12(1) 70			
'Cream Butterfly'syn Cream Star	5(3) 15	5(3) 15	6(2) 5	10(4) 65		11(2) 56
'Elly Belle'	10(3) 10	11(2) 31	12(1) 70			
'Gretel'	8(1) 3	9(2) 30	10(1) 48			
'Holly Belle'	10(3) 10	11(2) 32	12(2) 68			
'Isabella'	8(1) 3				12(2) 71	
'Julie Anna'	10(1) 10	11(2) 32	12(1) 70			
'Le Rosetta'	7(4) 6	9(1) 21	9(4) 56	9(4) 57	12(4) 102	9(4) 57
'Lemon Delight'	10(4) 12					
'Midas Gold'	10(4) 12				11(4) 55	
'Miro'					7(1) 33	11(2) 56
'Polly Anna'	7(4) 6	9(1) 21	9(4) 56		12(4) 102	
'Primrose Petite'	8(1) 3	9(2) 30	10(1) 48	9(3) 73		8(2) 31
'Rosetta'†					9(4) 57	9(4) 57

	Public Notice	Description	Grant	Varied	Withdrawn/ Surrendered/ Revoked/ Refused	Corrigenda
'Shaggy Dog'	10(4) 12				11(4) 55	
'Sugar And Ice'syn X93040	8(2) 2	9(2) 30	10(1) 48			
'Sugar Baby'	6(3) 44	8(1) 17	9(2) 61			
'Sugar Button'	9(3) 11	10(3) 28	11(2) 53			
'Sugar Lace'	9(3) 10	10(3) 28	11(2) 53			
'Summer Eyes'	9(3) 10	10(3) 29	11(2) 53			
'Summer Melody'	10(3) 10					
'Summer Pink'	7(3) 6	8(3) 21	9(2) 61			
'Summer Stars'	11(4)					
'Tanja'	7(2) 4	10(2) 38	11(1) 64			
'Ulyssis' syn Butterfly	5(3) 15	5(3) 15	6(2) 5	10(4) 65		
'Summer Angel'	7(2) 8	8(1) 17	9(2) 61			
'Surprise Party'	7(2) 8	8(1) 18	9(2) 61			
Asplenium						
antiquum						
'Victoria'	6(2) 33	7(1) 11	8(1) 39	9(3) 73		
australasicum						
'Crinkle Cut'	3(2) 34				7(3) 49	
Aster						
hybrid						
'Dark Milka'	12(1) 11	12(4) 19				
'Karmijn'	10(4) 11				11(4) 55	
'Karmijn Milka'	12(1) 11	12(4) 19				
'Mauve Parade'	10(4) 11				11(4) 55	
'Milka'	10(4) 11	12(4) 20				
'Peter's White'	12(1) 11	12(4) 21				
pringlei x *novi-belgii*						
'Blue Butterfly'	3(1) 37				9(2) 62	
'Pink Butterfly'	3(1) 37				9(2) 62	
'Rose Butterfly'	3(1) 37				9(2) 62	
'White Butterfly'	3(1) 37				9(2) 62	
Asteriscus						
maritimus						
'Double Gold Coin' syn Typ Gefullt	10(1) 8	10(1) 12	11(1) 62			
Astrebla						
lappacea						
'Yanda' syn 104C	9(2) 7	10(4) 23		10(4) 65		
pectinata						
'Turanti' syn 64A	9(2) 7	10(4) 19		10(4) 65		
Austromyrtus						
inophloia						
'Aurora'	8(2) 2	9(3) 17	10(2) 55	10(2) 59		
Avena						
sativa						
'A.C.Assiniboia'syn Graza 68	10(4) 13	11(2) 34	12(1) 70			
'AC Medallion'syn Moola	9(4) 9	10(1) 26	11(1) 64	10(2) 59		10(2) 60
'Barcoo' syn QK 88-129	8(4) 6	9(3) 38	10(2) 57			
'Bass'	11(2) 14	12(1) 38	12(4) 100	12(1) 73		
'Carrolup' syn 81Q:346	6(4) 9	7(4) 27	10(4) 62			7(2) 29
'Cleanleaf'	3(4) 38	3(4) 26	5(4) 5			
'Condamine' syn PO 475	6(2) 32	6(3) 38	8(2) 31		9(2) 63	
'Coomallo' syn WAOAT373	9(4) 9	10(1) 26	10(4) 62			
'Dumont 68'†					10(2) 59	
'Ensiler' syn SN 404, P.I.527933	6(2) 33				8(1) 39	

	Public Notice	Description	Grant	Varied	Withdrawn/ Surrendered/ Revoked/ Refused	Corrigenda
'Enterprise'	4(4) 23	5(4) 12	6(3) 6			
'Euro' syn ME/45/7	7(3) 5	8(2) 25	9(2) 61		10(4) 65	
'Graza 50'	6(4) 6	7(2) 23	8(1) 38			
'Graza 70'	6(4) 6	7(2) 25	8(1) 38		12(1) 73	7(1) 33
'Gwydir'	10(4) 13	11(3) 28	12(2) 69	11(3) 54		
'Heritage Lordship'	11(2) 14	12(1) 39	12(4) 100			12(2) 72
'Hotham'	11(2) 14	11(2) 34	12(1) 70			
'Nobby' syn 81AB1710	5(2) 35	5(4) 18	6(3) 6			
'Needilup'	11(4) 11	12(1) 41	12(4) 100			
'Nu Gene' syn ND 9308572	12(1) 10					
'Pallinup' syn 81Q: 359	8(2) 4	9(4) 33	10(4) 62			
'PO 519'†				11(3) 54		
'PO 535'†				11(3) 54		
'Quoll'	11(4) 11			12(2) 71		
'Riel'	5(1) 22	5(1) 22	6(1) 6			
'Targa'	12(3) 11					
'Toodyay' syn WAOAT347	9(4) 9	10(1) 27	10(4) 62			
'Vasse'	11(2) 14	11(2) 35	12(1) 70			
'Warrego'	10(4) 13	11(3) 29	12(2) 69	11(3) 54		
Backhousia						
citriodora						
'Harvest Home'	9(3) 10				12(1) 73	
Banksia						
coccinea						
'Waite Crimson'	6(1) 28	8(2) 8				
'Waite Flame'	7(4) 7	8(2) 9				
hookeriana						
'Waite Orange'	4(2) 23	4(2) 9	5(2) 6			
spinulosa						
'Birthday Candles'	3(1) 37	3(1) 5	3(4) 4	6(3) 46 9(3) 73		9(1) 37 12(2) 71
Betula						
pendula						
'Barossa Wintergreen'	3(2) 34	3(4) 19	4(4) 5		10(1) 50	
Bidens						
feruifolia						
'Innbid'	10(1) 8	10(1) 14			11(1) 65	
Biserrula						
pelecinus						
'Casbah' syn Mor99	9(2) 5	10(2) 23				
Boronia						
heterophylla						
'Cameo'	3(4) 38	3(4) 25	5(2) 6			
'Cameo Stripe'	10(4) 10				12(2) 71	
'Early Red'					12(4) 102	
'Just Margaret'	6(1) 28	6(4) 42	7(4) 40	12(4) 102		
'Moonglow'	3(4) 38	3(4) 25	5(2) 6			
heterophylla x megastema						
'Purple Jared'	12(4) 10					
megastigma						
'Royale'	8(1) 3	9(1) 10	9(4) 55			
pinnata						
'Golden Nola'	4(3) 26	4(3) 22	5(4) 5		7(3) 49	
Bothriochloa						
bladhii						
'Swann'	8(2) 3	9(4) 29	10(3) 54			10(1) 51

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insculpta						
'Bisset'	3(2) 34	3(2) 9	4(1) 4			3(4) 38
pertusa						
'Dawson'	3(3) 26	5(1) 7	6(1) 6			
'Medway'	5(1) 8	5(1) 8	6(1) 6			
Bougainvillea						
glabra						
'Krishna'	11(1) 8	11(2) 18	12(1) 69			
hybrid						
'Hot August Moon'	10(2) 11				10(4) 64	
'Jazzi'	12(2) 11					
'Jellibene'	12(2) 11					
'Little Guy'	8(3) 5	9(1) 10	9(4) 55			
'Majik'	10(4) 10	11(2) 18	12(1) 69			
'Marlu'	12(2) 11					
'Miski'	10(2) 11	11(2) 18	12(1) 69	10(4) 61		
'Nonya'	10(4) 10	11(2) 19	12(1) 69			
'Pedro'	8(3) 5	10(1) 14	10(4) 61			
'Siggi'	12(2) 11					
'Solar Flare'	11(4) 10	11(4) 16				
'Tosca'	12(2) 11					
'Toffi'	12(2) 11					
'Zuki'	10(2) 11	11(2) 19	12(1) 69			
x *spectoperuviana*						
'Mischief'	8(1) 3	9(4) 18	10(3) 52			
Brachyscome						
hybrid						
'Sunabell'	11(4) 10	12(2) 25				
aff. formosa						
'Happy Face' syn PGA Form 93/1	7(3) 7			8(2) 31	9(4) 57	
'Happy Face Pink' syn PGA Form 93/2	7(3) 7			8(2) 31	9(4) 57	
angustifolia						
'Hot Candy'	10(4) 10	11(4) 17	12(3) 55	12(3) 57		
'Hot Candy' syn Candy Tuff†				12(3) 57		
'Mardi Gras'	8(2) 3	9(3) 18	10(2) 55			
'Mauve Delight'	10(3) 9	11(4) 17				
angustifolia x *multifida*						
'Just Jayne'	6(4) 9	7(3) 40	9(3) 71		12(1) 73	
ascendens						
'Lavender Mist'	8(1) 3				9(3) 74	
ascendens x *curvicarpa*						
'Sunset'	8(3) 5				10(2) 60	
formosa						
'Strawberry Mousse'	6(2) 32	7(4) 22	9(3) 71			
multifida						
'Blue Haze'	5(2) 35	6(2) 14	7(4) 40		8(4) 52	
'Compact Amethyst'	12(4) 10					
'Lemon Drops'	5(2) 35	6(2) 15	7(4) 40		8(4) 52	
'Pink Haze'	5(2) 35	6(2) 13	7(4) 40			
'Tiny Tots'	6(1) 29				9(1) 37	
multifida x curvicarpa						
'Lemon Twist'	7(3) 7	10(1) 15	10(4) 61	10(4) 64	8(2) 31	
'PGA.Brac 93/3'				10(4) 64		
'PGA.Brac 93/6'	7(3) 7				8(2) 31	
'PGA.Brac 93/8'	7(3) 7				8(2) 31	
rigidula x multifida						
'Toucan Tango' syn Ultra	5(2) 34	5(2) 34	6(1) 6	8(4) 51	10(2) 60	
segmentosa						
'92.PGASEG/1'	7(3) 7			10(4) 64		

	Public Notice	Description	Grant	Varied	Withdrawn/ Surrendered/ Revoked/ Refused	Corrigenda
'Misty Mauve'	7(3) 7	10(1) 15	10(4) 61	10(1) 50 10(4) 64		
segmentosa x curvicarpa						
'Sunburst'	6(4) 8	7(3) 38	9(2) 60			
segmentosa x procumbens						
'Sunblush'	9(3) 9				11(4) 55	
Bracteantha						
bracteata						
'Argyle Star'	10(1) 8	11(2) 36	12(1) 70			
'Ashton Argyle'	11(2) 15				12(2) 71	
'Broome Pearl'	12(1) 12	12(3) 29				
'Cable Beach'	11(2) 15					
'Carrawine'	11(2) 15					
'Colourburst Gold'	12(4) 12					
'Colourburst Pink'	11(1) 8	11(3) 31	12(2) 69			
'Gold 'N' Bronze'	8(2) 3	9(3) 19	10(2) 56		12(3) 57	
'Greta'	10(2) 11					
'Kalgoorlie Gold'	12(1) 12	12(3) 30				
'Lemon Colourburst'	11(1) 8	11(2) 36	12(1) 70			
'Margaret McArthur'	10(2) 11					
'Menindee Magic'	10(1) 9	11(2) 36	12(1) 70		11(3) 54	
'NN-9812AE'	12(4) 12					
'NN-B9821A'	12(4) 12					
'NN-B9892'	12(4) 12					
'Nullarbor Flame'	10(1) 8	10(4) 35				
'Pindan'	11(2) 14					
'Spectrum'	9(1) 4	10(2) 31	11(1) 63			
'Sunraysia Splendour'	10(1) 9	11(2) 37	12(1) 71			
Brassica						
napus						
'46C01'	12 (1) 11					
'47C02'	12 (1) 11					
'Barossa'	3(1) 37	3(3) 9	4(3) 6		8(3) 53	
'Charlton'	11(4) 10	12(4) 24				
'Clancy' syn BLN 973	9(3) 9	9(4) 18	10(3) 53	9(4) 57 10(3) 56		
'Drum' syn BLN 971	9(3) 9	9(4) 18	10(3) 53	9(4) 57 10(3) 56		
'Dunkeld' syn RF3	7(2) 5	8(4) 40	9(3) 71			
'Grouse' syn BLN 884	9(4) 8	10(4) 20	11(3) 51	10(3) 56		
'Hobson'	1(4) 23	2(2) 12	3(1) 4			
'Hylite 200TT'	11(4) 10	12(4) 25				
'Karoo' syn TI 7	9(1) 5	10(4) 20	11(3) 51	10(4) 64		
'Monola-31' syn HD1*4	4(4) 23				5(1) 26	
'Monola-32' syn HB1*1-3	4(4) 23				5(1) 26	
'Monty' syn BLN 900	9(4) 8	10(4) 21	11(3) 51	10(3) 56		
'Mystic'	11(3) 10	11(4) 55	12(3) 55			
'Narendra'	5(2) 35	6(4) 18	7(4) 40			5(4) 35 7(2) 29
'Oscar' syn BLN500	5(2) 35	8(3) 10	9(2) 60			
'Rainbow' syn RE9	7(2) 5	8(4) 40	9(3) 71			
'Range' syn AGA94-18	9(4) 8	10(4) 21	11(3) 51			
'Scoop' syn BLN 877	9(3) 9	9(4) 19	10(3) 53	9(4) 57 10(3) 56		
'Siren'	7(2) 8	8(4) 40	9(3) 71		11(4) 18	
'Striker'	10(3) 9			12(3) 57		10(4) 65
'Surpass 600'	11(4) 10	12(4) 28				
'Surpass 600TT'	11(4) 10	12(4) 29				
'TI 10'	9(2) 6	10(4) 22	11(3) 52	10(4) 64		
'TI1 Pinnacle' syn TI1	10(1) 9	10(4) 22	11(3) 52	10(4) 64		
'Yickadee'	3(1) 37	3(3) 8	4(3) 6		8(3) 53	
oleifera						
'Ag Emblem'	12(2) 11			12(4) 102		

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'BLN 1400'†				12(4) 102		
'Bugle'	12(2) 11					
'Emblem'†				12(4) 102		
'Georgie'	12(3) 10					
'Insignia'	12(3) 10					
'Purler'	12(3) 10	12(4) 26				
'Ripper'	12(3) 10	12(4) 26		12(4) 102		
'Trooper'	12(2) 11					
Bromus						
stamineus						
'Grasslands Gala'	4(4) 23	5(1) 12	6(1) 6			
Brunfelsia						
latifolia						
'Sweet Petite'†				12(4) 102		
'Sweet & Petite'	11(4) 10	12(4) 23		12(4) 102		
Buchloe						
dactyloides						
'609' syn 609 Buffalograss†				11(1) 65		
'Oasis'	5(4) 33	12(3) 19	6(4) 54	11(1) 65		11(2) 56
Buddleia						
asiatica						
'Spring Promise'†				7(4) 41		
'Sweet Promise'	6(3) 43	8(4) 39	9(3) 71	7(2) 29 7(4) 41		
hybrid						
'Wattle Bird'	8(4) 5	8(4) 39	9(3) 71			
Callistemon						
salignus						
'Fireball'†				4(1) 25		
'Great Balls Of Fire'	3(4) 38	4(1) 10	5(1) 7	4(1) 25 9(2) 62		
Calibrachoa (Petunia)						
hybrid						
'Liricashower'	12(1) 12				12(4) 102	
'Liricashower Blue'	12(1) 12				12(4) 102	
Camellia						
hybrid						
'Sweet Jane'	9(2) 6	10(2) 26	11(1) 63	10(3) 56		
sasanqua						
'First Cover' syn Classique	10(1) 9	10(1) 16	10(4) 61			
'Marge Miller'	8(1) 3	8(3) 10	9(2) 60	10(3) 57		
'Paradise Audrey'	8(4) 5	10(2) 25	11(1) 63			
'Paradise Belinda'	6(3) 44	7(3) 33	8(2) 30			
'Paradise Helen'	8(4) 5	10(2) 25	11(1) 63			
'Paradise Joan'	10(3) 9	11(3) 15				
'Paradise Little Liane'	6(3) 44	7(3) 34	8(2) 30			
'Paradise Petite'	6(3) 44	7(3) 32	8(2) 30			
'Paradise Sayaka'	10(3) 9	11(3) 16				
'Paradise Venessa'	6(3) 44	7(3) 35	8(2) 30			
'Parbarb'	12(1) 10					
'Parbev'	12(1) 10					
'Parbjane'	12(1) 10					
'Parblynda'	12(1) 10					
'Parcaroline'	12(1) 10					
'Pardiana'	12(1) 10					
'Pargillian'	12(1) 10					
'Parjenni'	12(1) 10					
'Parjennifer'	12(1) 10					

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'Parjill'	12(1) 10					
'Parleonie'	12(1) 10					
'Parlouise'	12(1) 10					
'Parodette'	12(1) 10					
'Parsusan'	12(1) 10					
'Snowcloud'	9(4) 8	10(2) 26	11(1) 63			
Campanula						
punctata						
'Mystic Bells'	11(3) 10	11(4) 15				
Canna						
hybrid						
'Phasion' syn Pink Phasion	8(3) 5	9(2) 16	10(1) 47	12(3) 57		8(4) 52
Cantharellus						
cibarius						
'Cantherelle' syn Fanar	11(3) 10					
Capsicum						
annuum						
'Peppadew' syn Steenkamp	10(3) 9	11(3) 17		10(4) 64 12(3) 57		
annuum var fasiculatum						
'Bantam' syn R10	10(2) 11	11(2) 21	12(1) 69	11(1) 65		11(2) 56
'Orange Bantam'	11(3) 10	12(4) 33				
'Thimble' syn T6	10(2) 11	11(2) 21	12(1) 69	11(1) 65		11(2) 56
annuum var longum						
'Kalocsai 90' syn Fantasy Elixir	9(4) 8	11(4) 36	12(3) 56	11(4) 56		
Carthamus						
tinctorius						
'S-501'	8(3) 7				9(4) 57	
Caustis						
blekei						
'Forest Fantasy'	12(3) 11					
Celosia						
aregentea var *cristata*						
'Martine Pink'	11(2) 13					
'Martine Red'	11(2) 13					
'Martine Yellow'	11(2) 13					
Cenchrus						
ciliaris						
'Bella'	6(3) 45	7(1) 29	8(1) 38			
'Viva'	6(3) 45	7(1) 31	8(1) 38			
Centrosema						
pubescens						
'Cardillo'	9(3) 9	10(3) 17				11(1) 66
Ceratopetalum						
Gummiferum						
'Bill Winter'	12(1) 11					
'KSCL2'	12(1) 11					
'VIC 90-1'	9(1) 5	12(1) 27	12(4) 100			

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Chamelaucium						
floriferum						
'Lady Jennifer'	3(1) 37	3(1) 19	7(4) 38	12(4) 103		
floriferum x uncinatum						
'Crystal'	8(4) 8	10(2) 52	11(1) 65			
'Tickled Pink'	4(4) 23	5(2) 11	6(1) 7		6(3) 6	
megalopetalum x uncinatum						
'Albany Pearl'	11(2) 15					
'Blondie'	7(3) 9	9(2) 54	10(1) 49			
'Denmark Pearl'	11(2) 15					
'Esperance Pearl'	10(2) 14					
'Esperance Velvet'	10(2) 14				12(3) 57	
'Madonna'	6(4) 7	9(2) 56	10(1) 49			
'Painted Lady'	6(4) 7	9(2) 57	10(1) 49			
'Revelation'	6(1) 28	9(2) 58	10(1) 49			
uncinatum						
'Cascade Brilliance'	9(3) 12	11(2) 50	12(1) 72			
'Cascade Brook' syn GW 53	6(3) 45	9(2) 52	10(1) 49			
'Cascade Jewel' syn GW57	6(3) 45	8(1) 37	8(4) 50			
'Cascade Mist' syn GW 22	6(3) 45	7(3) 36	8(2) 31			7(1) 33 8(3) 53
'Dancing Queen'	11(4) 12					
'Elegance'	4(1) 25	4(1) 9	7(4) 38		12(3) 57	4(2) 24
'Jenny Jane'	5(3) 17	9(3) 67	10(4) 63	12(4) 103		
'Jubilee Jade'	5(3) 17	9(3) 67	11(2) 55	10(2) 59 12(4) 103		
'Jubilee'†				10(2) 59		
'Jurien Brook'	10(2) 14					
'Kismet'	5(3) 17	9(3) 68	10(4) 63	12(4) 103		
'Muchea Mauve'	5(3) 17	9(3) 70	10(4) 63	12(4) 103		
'Niribi' syn NEWP 001; GW44	4(3) 26	5(1) 11	6(1) 5		8(4) 51	
'Ofir'	11(3) 12					
'Pearl Buttons'	4(2) 23	4(2) 15	8(4) 50	12(4) 103		4(3) 26 8(2) 31
'Pristine'	4(2) 23	4(2) 16			9(3) 74	4(3) 26 8(2) 31
'Triumphant'	4(2) 23	4(2) 16	7(4) 38	12(4) 103		
'Tutu'	6(4) 7				11(3) 65	
'Variegated Blush'	3(1) 37	3(1) 18	7(4) 38	12(4) 103		
'White Spring'	3(1) 37	3(1) 17	7(4) 38	12(4) 103		3(3) 26
uncinatum x axillare						
'GW1'	12(3) 13					
'My Sweet Sixteen'	11(4) 12					
uncinatum x ciliatum						
'Eric John'	3(1) 37	3(1) 17	7(4) 38	12(4) 103		3(3) 26
uncinatum x forestii						
'Whitefire' syn White With Red Buds	4(3) 26	6(4) 13	8(2) 31		10(1) 50	
uncinatum x megalopetalum						
'ADI'	11(4) 12					
uncinatum x micranthum						
'Comet' syn Mid Microwax (63(A)	4(3) 26	6(4) 13	7(4) 39		10(1) 50	
'Earlybird' syn Early White 1166(E)	4(3) 26	6(4) 12	7(4) 39			
'Moonstar' syn Late Microwax (63)	4(3) 26	6(4) 13	7(4) 39		10(1) 50	
'Moonstruck' syn White Miniwax 300(A)	4(3) 26	6(4) 12	7(4) 39		10(1) 50	
'Plumwhite' syn Miniwax (28)	4(3) 26	6(4) 12	7(4) 39		10(1) 50	

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'Supernova' syn Microwax 63(F)	4(3) 26	6(4) 12	7(4) 39		10(1) 50	
xverticordia hybrid						
'Jasper'	10(2) 14					
Cheiranthus						
mutabilis						
'Joy Gold'	5(4) 34				7(4) 41	
Chloris						
gayana						
'Capital'	6(2) 31				8(3) 53	
'Finecut'	6(2) 31	10(4) 47	11(4) 53			
'Nemkat'	8(2) 5	10(4) 47				
'Topcut'	6(2) 31	10(4) 48	11(4) 53			
Choisya						
ternata						
'Lich' syn Sundance	2(2) 30	3(2) 8			4(1) 25	2(3) 23
Chrysanthemum						
frutescens						
'Camilla Ponticelli'	3(3) 26	9(1) 12	10(4) 61			
sp						
'Alcala'	8(3) 5	9(3) 20				
'Boskoop'	8(3) 5	9(3) 21		10(3) 56		
'Cobra'†				10(3) 56		
'Dark Red Marconi'						
'Red Elani'	8(3) 5	9(3) 21				
'Samco'	8(3) 5	9(3) 22				
'Tripoli'	8(3) 5	9(3) 22				
'Veria Dark'	8(4) 5	9(3) 22				
Cicer						
arietinum						
'Barwon'	3(2) 34	3(2) 28	5(2) 6			
'G846-2-5'†			12(4) 102			
'Bumper'	10(2) 11	12(3) 21	12(4) 102			
'Heera'					11(1) 65	
'Narayen'					7(3) 49	
'Norwin' syn 243-7	5(3) 16	5(3) 16	6(2) 5			
'Sona'					11(1) 65	
'T1315'†			12(4) 102			
'Gully'	10(2) 11	12(3) 21	12(4) 102			
Citrus						
(unshiu x sinensis) x unshiu						
'Tsunokaori'	7(2) 7	9(2) 17				
reticulata						
'Eloise' syn IM 11	6(3) 45				10(3) 56	
'Monarch' syn IH-66-5-15	7(3) 6					
'Success'	5(3) 18				11(4) 55	
reticulata hybrid						
'Sunset'	4(3) 26	4(3) 23	5(3) 6			
reticulata x sinensis						
'IrM1'	11(4) 11					
sinensis						
'Autumn Gold Late Navel'	2(1) 14	8(2) 25			11(1) 65	
'Barnfield Late Navel'	2(1) 14	8(2) 27	11(2) 53	9(4) 57		
'Chislett Summer Navel'	2(1) 14	6(2) 6	7(2) 28			
'Edwards Summer Navel'	2(1) 14				3(2) 34	
'Powell Late Navel'†				8(4) 51		
'Powell Summer Navel'	2(1) 14	8(2) 27		8(4) 51		

	Public Notice	Description	Grant	Varied	Withdrawn/ Surrendered/ Revoked/ Refused	Corrigenda
'Rohde Summer Navel'	2(1) 14	11(1) 45	12(1) 71		8(3) 53[a]	2(2) 31
'Summer Gold Late Navel'	2(1) 14	6(2) 5	7(2) 28			
'Toomey Summer Navel'	2(1) 14				3(2) 34 7(3) 49	
'Weller Red'	5(4) 34	8(4) 43	9(3) 71			
Clematis						
aristata x gentianoides						
'Southern Cross' syn Garden Surprise	8(1) 4	9(2) 18	10(2) 55		11(3) 54	
cirrhosa						
'Lansdowne Gem'	12(2) 11					
hybrid						
'Jenny Keay'	9(2) 6	10(1) 16	10(4) 61			10(2) 60
marmoraria x paniculata						
'White Carpet'	11(3) 10					
montana						
'Broughton Star'	12(2) 11					
'Starlight'	8(3) 5	9(4) 24	10(3) 53			
serratifolia						
'Kugotia' syn Tiara Gold	10(3) 9					
Codium						
variegatum						
'Grubell' syn Bell	11(2) 13					
Coleonema						
pulchellum						
'Mellow Yellow'	12(1) 11					
Convolvulus						
sabatius						
'White Gladys'	11(2) 13	11(4) 35				
'Star Struck'	12(2) 12					
Coprosma						
repens						
'Rainbow Surprise'	8(3) 5	9(2) 31	10(1) 48		11(1) 66	
Cordyline						
australis						
'Kiwi Dazzler'	6(4) 6				10(1) 50	
Coreopsis						
grandiflora						
'Summer Gold'	3(1) 37	3(1) 35	3(4) 4		9(4) 57	
Cornus						
alba						
'Bailhalo' syn Ivory Halo	10(2) 11					
florida						
'D-376-15'	9(4) 8					
hybrid						
'Rutcan' syn Constellation	9(3) 9	10(3) 21	11(2) 53	11(2) 56		
kousa x florida						
'Rutdan' syn Celestial	9(3) 9	10(3) 21	11(2) 53			
Corymbia (Eucalyptus)						
maculata						
'Imagine'	11(3) 12	12(3) 45				
Cucumis						
melo						
'Rainbow'	2(3) 23				4(1) 25	

[a] Withdrawn but later reinstated

	Public Notice	Description	Grant	Varied	Withdrawn/ Surrendered/ Revoked/ Refused	Corrigenda
Cucurbita						
maxima						
'Dulong QHI'	10(4) 14	12(4) 51				
'Eudlo QHI'	10(4) 14					
'Redlands Trailblazer'	3(4) 38	4(2) 5	5(2) 6		10(3) 56	
moschata						
'Loana 52'	9(1) 7	10(2) 44	11(1) 64			9(2) 63
Cuphea						
hyssopifolia						
'Golden Ruby' syn Cocktail	3(3) 26	3(3) 21			5(1) 7	
'Karissa'	12(1) 11					
'Little Hatter'	11(3) 10					
'Louisa'	10(2) 11	11(2) 20	12(1) 69			
'Shona'	12(1) 11					
'Victoria'	12(4) 11					
llavea						
'Tiny Mice' syn Georgia Scarlet	8(3) 5	9(4) 26	10(3) 53			
Cupressocyparis						
hybrid						
'Atlas'	6(2) 31	9(1) 12	9(4) 55			
'Gold Medal' syn Peter Nitschke	5(2) 10	5(2) 10	6(1) 7			5(3) 21
leylandii						
'Ferngold'	9(1) 5				12(4) 103	
'Grelive' syn Olive's Green	6(1) 28				9(1) 37	
'Gold Rider'	3(1) 37	3(1) 21	3(4) 4			
Cupressus						
glabra						
'Highlight'	12(3) 10	12(3) 18				
'Limelight'	4(3) 26	4(3) 22	5(3) 5			
'Limeglow'	12(3) 10	12(3) 19				
macrocarpa						
'Golden Halo'	3(2) 34	4(1) 6	5(1) 7			
sempervirens						
'Gold Pillar'	7(2) 8	8(2) 12	9(4) 55	9(4) 57	12(4) 103	
'Olympic Gold'†				9(4) 57		
Cyathea						
cooperi						
'Allyn Krest'	8(2) 6	9(4) 24	10(3) 53			
'Allyn Lace'	7(3) 9	9(4) 24	10(3) 53			
Cymbidium						
hybrid						
'Atlantis'	11(3) 11					
Cynara						
scolymus						
'Imperial Star' syn UC-IS-89 (86-024)	6(4) 8	7(3) 39	8(3) 52			
Cynodon						
dactylon						
'Cheyenne'	3(4) 38				4(3) 26	
'Plateau'	11(1) 8	12(2) 27				
'Riley's Super Sport'	8(2) 3	9(2) 20	10(1) 47	8(4) 51		
'Riley's Evergreen'	11(2) 13	12(3) 24				
'Windsor Green'	6(2) 29	6(2) 29	7(1) 32			

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dactylon ssp.pulchellus						
'Wirlga'	10(2) 12	11(3) 27				
dactylon x transvaalensis						
'Champion Dwarf'	9(4) 8	12(1) 31				
Cynoglossum						
amabile						
'Sweet Elise'	10(1) 9					
Dactylis						
glomerata						
'Grasslands Excel'	12(4) 10	12(4) 30				
'Grasslands Kara'	2(3) 23	2(3) 18	3(2) 5			
'Grasslands Vision'	11(2) 13	11(3) 19	12(2) 68			
Dahlia						
pinnata						
'Dappled Dancer'	7(2) 5				10(1) 50	
'Jodie'	7(2) 5				10(1) 50	
'Kaleidoscope'	7(2) 5				12(1) 73	
variabilis						
'Elly' syn RS 84540	6(1) 31				7(2) 29	
'Robetty' syn Betty	6(1) 31				7(2) 29	
'Rolinda' syn Linda	6(1) 31				7(2) 29	
'Rosconnie' syn Conny	6(1) 31				7(2) 29	
'Rosmargareth' syn Margareth	6(1) 31				7(2) 29	
'Rowendy' syn Wendy	6(1) 31				7(2) 29	
'Simon' syn RS 84943	6(1) 31				7(2) 29	
Danthonia						
linkii						
'Bunderra'	4(4) 23	5(1) 20	6(1) 5			
richardsonii						
'Hume'	8(1) 6	8(1) 36	9(1) 36			
'Taranna'	4(4) 23	5(1) 18	6(1) 5			
Daphne						
odora						
'Star White'	7(3) 6				8(3) 53	
Desmanthus						
virgatus						
'Bayamo'	5(3) 18	8(1) 14	8(4) 49			
'Marc'	5(3) 18	8(1) 14	8(4) 49			
'Uman'	5(3) 18	8(1) 14	8(4) 49			
Dianthus						
barbatus hybrid						
'Stagiten' syn Pink Gypsy	4(1) 25	4(1) 15	5(1) 7		12(1) 73	
barbatus x superbus						
'Stagibrig' syn Bright Eye Gypsy	4(1) 25	4(1) 16	5(1) 6		8(3) 53	4(2) 23
'Stagidark' syn Dark Eye Gypsy	4(1) 25	4(1) 15	5(1) 7		8(3) 53	4(2) 23
'Stagigi' syn Giant Gipsy	4(1) 25	4(1) 15			7(3) 49	
caryophyllus						
'Cana'	3(2) 34	3(3) 14			9(1) 37	
'Chandenn'	1(3) 13	2(1) 9	3(1) 4	2(3) 23	5(3) 6	
'Charodeyka'	1(3) 13	2(1) 6	3(1) 4	2(1) 15	10(2) 60	
'Fantastic'	1(3) 13	2(1) 4	3(1) 5	2(1) 15	5(3) 6	
'Grozdana' syn Dana	1(3) 13	2(1) 4	3(1) 4	2(3) 23 2(1) 15	5(3) 6	
'Kovalya' syn Valya 2	3(3) 26				9(1) 37	

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'Mechta'	1(3) 13	2(1) 7	3(1) 4	2(1) 15	5(3) 6	
'Neshka'	1(3) 13	2(1) 7	3(2) 5	2(1) 15	5(3) 6	2(2) 31
'Odile'	1(3) 13	2(1) 4	3(1) 4	2(1) 15	5(3) 6	
'Pirin'	1(3) 13	2(1) 8	3(2) 5	2(1) 15	5(3) 6	
'Prolet'	1(3) 13	2(1) 9	3(1) 5	3(4) 38	5(3) 6	
'Rubin'†				2(1) 15		
'Rubinen'	1(3) 13	2(1) 8	3(1) 4	2(1) 15	5(3) 6	
'Srebrina'	3(2) 34	3(3) 13			9(1) 37	
'Stacorpi' syn Pink Corso	3(4) 38				6(1) 7	
					7(3) 49	
'Stalipink' syn Pink Pisa	3(4) 38				10(1) 50	
'Stapisou' syn Flash	3(4) 38				6(1) 7	
'Starotang' syn Espana	3(4) 38				10(1) 50	
'Statas' syn Tasman	4(1) 25	10(4) 23	11(3) 52		12(3) 57	
'Statropur' syn Gipsy	3(4) 38	11(3) 17	12(2) 68			12(2) 72
'Stayelpa' syn Las Palmas	3(4) 38				10(1) 50	
'Valya'	1(3) 13	2(1) 6	3(2) 5	2(1) 15	5(3) 6	
'Victoria'†				2(3) 23		
'Zlatka'	1(3) 13	2(1) 8	3(1) 5	2(1) 15	5(3) 6	
'Zora'	1(3) 13	2(1) 9	3(1) 4	2(1) 15	10(2) 60	
'Zornitza'	1(3) 13	2(1) 4	3(2) 5		5(3) 6	
hybrid						
'Crossover'	7(4) 6	9(2) 21	10(1) 47		11(1) 66	
'Far Out'	7(4) 6	9(2) 21	10(1) 47		11(1) 66	
'Stagilac' syn Lilac Gypsy	4(1) 25	4(1) 15	5(1) 7		12(1) 73	
'Codianki'	12(4) 10					
plumarius						
'Far East'	8(3) 6	9(4) 27	10(3) 54		11(4) 55	
'Far North'	6(4) 6	8(2) 12	9(1) 35		11(1) 66	
'Fury'	8(3) 6	9(4) 27			11(1) 65	
'Royal Velvet'	8(3) 6	9(4) 27	10(4) 61		11(4) 55	
'Spot On'	8(3) 6	9(4) 27	10(3) 54		11(4) 55	
x plumarius						
'Checkmate'	6(4) 6				7(4) 41	
'Neat N Tidy'	6(4) 6				7(4) 41	
Diascia						
barberae						
'Fiona'	8(1) 4	10(4) 24	12(1) 69			
'Strawberry Sundae'	7(2) 8	8(1) 15	9(1) 36			
hybrid						
'Apricot Cherub'	8(3) 6	9(3) 24	10(4) 61			
'Coral Belle'	10(1) 9	10(4) 24	11(3) 52			
'Codiape'	12(4) 11					
'Codiach'	12(4) 11					
'Hecbon' syn Blue Bonnet	12(1) 11					
'Hecrace' syn Red Ace	12(1) 11					
'Jacqueline's Joy'	6(4) 7	9(3) 25	10(2) 55	10(4) 64		
'Joyce's Choice'	6(4) 7	9(3) 25	10(2) 55	10(4) 64		
'Lady Valerie'		9(3) 25	10(2) 56	10(4) 64		
'Lilac Belle'	6(4) 8	9(3) 25	10(2) 56	10(4) 64		
'Lilac Mist'	6(4) 7	9(3) 27	10(2) 56	10(4) 64		
'Salmon Supreme'	6(4) 6	9(3) 27	10(2) 56	10(4) 64		
sp						
'Raspberry Sundae'	9(2) 6				10(2) 60	
Dichanthium						
aristatum						
'Floren'	8(2) 2	9(4) 17	10(3) 52			10(1) 51
Dieffenbachia						
hybrid						
'Golden Sunset'	5(1) 25	6(2) 13	8(4) 49			

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'Paco' syn TS 8704	8(4) 5	9(4) 29	10(3) 54			
'TS8567' syn Tropic Marianne	6(2) 30	6(2) 30	8(4) 49			
Digitaria						
didactyla						
'PS 21'†				11(2) 56		
'Aussiblue'	10(3) 12			11(2) 56 12(1) 72		
milanjiana						
'Strickland'	8(2) 3	8(3) 11	9(2) 60			
Dionaea						
muscipula						
'Clayton's Red Sunset'	9(4) 10				11(1) 65	
'Clayton's Volcanic Red'	9(4) 10				10(4) 64	
'Royal Red'	6(2) 31	7(2) 16	8(3) 53	6(4) 54		7(3) 49
Duranta						
repens						
'Sheenas Green'	11(2) 13					
Echinochloa						
frumentacea						
'Indus'	7(1) 5	7(4) 29	8(3) 52		11(3) 54	
Eragrostis						
elongata						
'Elvera'	10(3) 10					
Eremocitrus						
glauca						
'Australian Outback'	10(1) 9					
Erysimum						
bicolor						
'Lilac Joy'	10(1) 11	11(2) 49	12(2) 70			
xbicolor						
'Maur Joy'	10(3) 12				11(4) 55	
linifolia						
'Dawn Breaker'	11(3) 12	11(4) 46				
Eucalyptus						
albens						
'Whiteward'	3(4) 38				5(4) 35	
camaldulensis						
'Redward'	3(4) 38			5(4) 35		
conica						
'Woolward'	3(4) 38				5(4) 35	
erythronema						
'Urrbrae Gem'	4(2) 23				6(3) 46	
largiflorens						
'Green Variant'	7(3) 5				8(4) 51	
melliodora						
'Yelloward'	3(4) 38				5(4) 35	
ptychocarpa x ficifolia						
'Summer Beauty' syn Number 13	8(1) 4	9(1) 15	9(4) 55			9(1) 37 9(2) 63
'Summer Red' syn Number 79	8(4) 5	9(1) 16	9(4) 55			
robusta						
'Aussie Spirit' syn VIC 97-3†					11(1) 64	
'The Green and Gold'	10(4) 15	12(3) 46			11(1) 64	

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rubida						
'Candleward'	3(4) 38				5(4) 35	
sideroxylon						
'Blackward'	3(4) 38				5(4) 35	
tereticornis						
'Rainbow Wizard'	12(2) 11					
Eupatorium						
ligustrinum						
'Snowdrift' syn Snowflake	5(4) 33				7(3) 49 8(1) 39	
Euphorbia						
dipladenia						
'Milkmaid'	5(3) 19				10(2) 60	
milii						
'Stibia' syn Bianca	6(1) 29	6(3) 36	7(2) 29			
milii hybrid						
'Stigaro' syn Gabriela Red	3(2) 34	3(3) 11	4(2) 4			
'Stiloga' syn Gabi	3(2) 34	3(3) 11	4(2) 4			
'Stirot' syn Rosemarie	3(2) 34	3(3) 11	4(2) 4			
pulcherrima						
'268 Pink' syn Eckespoint Celebrate 2 Pink	8(3) 7	9(3) 43	10(2) 57	10(2) 59		
'490 Marble' syn Eckespoint Freedom Marble	8(3) 7	9(3) 44	10(2) 57			
'490 Red' syn Eckespoint Freedom Red	8(3) 7	9(3) 44	10(2) 57	10(2) 59		
'490 White'†				10(2) 59		
'490'†					10(2) 59	
'Celebrate 2 Pink'†					10(2) 59	
'Duecabrired' syn Red Fox Tabaluga Red	12(2) 14	12(3) 32				12(3) 57
'Duecap' syn Red Fox Capri Red	10(4) 13	10(4) 39	11(3) 52			
'Duecohopi' syn Red Fox Coco Hot Pink	12(2) 14	12(3) 33				
'Dueday' syn Red Fox Highlight White	10(4) 13	10(4) 39	11(3) 53			
'Duedeluxe' syn Red Fox Deluxe	12(2) 14	12(3) 34				
'Dueimco' syn Red Fox Coco 2000	12(3) 12	12(3) 35				
'Duemal' syn Red Fox Mailbu Red	12(2) 14	12(3) 36				12(3) 57
'Duemenorca' syn Red Fox Menorca Red					12(2) 71	
'Duenidared' syn Red Fox Victory Red	12(2) 14	12(3) 37				
'Duespot' syn Redfox Spotlight Dark Red	10(4) 13	10(4) 40	11(3) 53			
'Duestarapri' syn Red Fox Apricot Highlight	10(4) 13	10(4) 41	11(3) 53			
'Eckespoint Freedom'†					10(2) 59	
'Eckespoint Monet'						12(1) 74
'Fiscor' syn Cortez Red	11(4) 11	12(3) 38				12(1) 73
'Fiscor Crème' syn Cortez White	11(4) 11	12(3) 39				12(1) 73
'Lemon Drop'	5(3) 19	5(4) 30	6(4) 53			
'Marblestar'					12(2) 71	
'Moni' syn Red Fox Moni		12(2) 14				12(4) 102
'Pepride'	12(4) 12					

	Public Notice	Description	Grant	Varied	Withdrawn/ Surrendered/ Revoked/ Refused	Corrigenda
'Peterstar Jingle Bells'					12(4) 102	
'Peterstar Marble'					12(1) 74	
'Peterstar Pink'					12(1) 74	
'Peterstar White'					12(1) 74	
'Pink Peppermint'	5(3) 19	5(4) 31	6(3) 6			
'Success'	12(4) 12					
'White Freedom' syn Eckespoint Freedom White	8(3) 7	9(3) 45	10(2) 57	10(2) 59		
Feijoa						
sellowiana						
'Duffy'	4(3) 26	5(4) 9	6(3) 6			
Festuca						
arundinacea						
'Bombina'	7(3) 7	9(2) 52	10(1) 49			
'Creole'	11(4) 12					
'Currawong'	11(4) 12					
'Encore'	11(4) 12					
'Flecha' syn Grasslands Flecha	12(1) 13					
'Fraydo'	11(4) 12					
'Grasslands Advance' syn G48	6(3) 45	6(3) 41	7(3) 47			
'Midwin'	7(2) 8	9(2) 52	10(1) 49			
'Resolute' syn El Pampa	12(1) 13					
Ficus						
benjamina						
'Bushy King'†				12(1) 72		
'Bushy Prince'†				12(1) 72		
'Citation' syn Curly Ben	6(1) 31	7(3) 19	8(2) 31			
'Curly'	8(3) 8				9(2) 62	
'Francis' syn Francis Goldstar	8(2) 6	9(3) 70	10(3) 55			10(2) 60
'Indigo'	10(2) 14					
'Marole' syn Bushy King	10(4) 15	12(1) 59	12(4) 99	12(1) 72		
'Mikkie' syn Bushy Prince	10(4) 15	12(1) 60	12(4) 99	12(1) 72		
'Midnight Beauty'	9(4) 11	10(1) 42	10(4) 62			
'Reginald'	5(3) 20	7(3) 16	8(4) 51			
'Twilight Beauty'	10(4) 15				12(4) 102	
elastica						
'Melany'	12(2) 12					
'Sylvie'	10(4) 11					
rubiginosa						
'Bonsai Bouy'	7(3) 5				9(1) 37	
Fragaria						
grandiflora						
'Pink Panda' syn Cover Up's	6(1) 28				10(2) 60	
hybrid						
'Capitola'	3(4) 38	9(4) 41	10(3) 55			
'Oso Grande'	2(4) 39	9(4) 42	10(3) 55			
'Seascape'	3(4) 38	9(4) 42	10(3) 55			
sp						
'Irvine'	2(4) 39				9(4) 57	
'Mrak'	2(4) 39				9(4) 57	
'Muir'	2(4) 39				9(4) 57	
'Soquel'	2(4) 39				7(2) 29	
'Tustin'	2(4) 39				7(2) 29	
'Yolo'	2(4) 39				9(4) 57	

	Public Notice	Description	Grant	Varied	Withdrawn/ Surrendered/ Revoked/ Refused	Corrigenda
x ananassa						
'Adina' syn 89-064-2	10(1) 11			10(4) 64		
'Alinta' syn 91-012-39	10(2) 13	12(1) 51	12(4) 101	10(4) 64		
'Anaheim'	6(3) 45					
'Cama'	6(3) 46					
'Carlsbad'	6(3) 46					
'Cartuno'	8(3) 8	12(1) 52	12(4) 101			
'Chandler'	2(4) 39	5(2) 6	6(2) 4			
'Coogee' syn 88-027-583	6(3) 43	7(2) 21	8(2) 31			
'Cuesta'	6(3) 46					
'Dorit'	5(4) 32					
'Euroka' syn 90-035-17	10(2) 13	12(1) 53	12(4) 101	10(4) 64		
'Fern'	2(4) 39	5(2) 6	6(2) 4		9(2) 63	
'Israeli Tamar'	10(4) 15					
'Kabarla' syn 45/90	8(3) 8	8(3) 50	9(2) 62			
'Kalang' syn 88-015-150	10(1) 11			10(4) 64	11(4) 55	
'Laguna'	6(3) 46					
'Lowanna' syn 92-021-433	10(2) 13	12(1) 53	12(4) 101	10(4) 64		
'Malah'	10(4) 14					
'Maroochy Blaze'	10(4) 14	12(4) 60				
'Maroochy Flame'	10(4) 14	12(4) 60				
'Maroochy Jewel'	12(1) 13	12(4) 61				
'Maroochy Starfire'	10(4) 15	12(4) 62				
'Maroochy Sundew'	12(1) 13	12(4) 63				
'Mianjin' syn 86/90	8(3) 8				9(4) 57	
'Mindarie' syn 88-023-200	6(3) 43	7(2) 17	8(2) 31			
'Nonda' syn 91-103-7	10(2) 13	12(1) 54	12(4) 101	10(4) 64		
'Ofra'	5(4) 32					
'Pandora'	4(2) 23				7(1) 33	
'Parker'	2(4) 39	5(2) 7	6(2) 4			
'Redlands Delight' syn 154/90	5(3) 19				6(4) 54	
'Redlands Hope'syn 192/90	5(3) 19	8(1) 33	8(4) 50			
'Redlands Horizon'syn 24/86	4(3) 26	8(1) 34	8(4) 50		11(4) 55	
'Redlands Joy' syn 171/90	5(3) 19	8(1) 34	8(4) 50			
'Redlands Pinnacle' syn 28/90	5(3) 19				8(1) 39	
'Redlands Rose' syn 106/90	5(3) 19				6(4) 54	
'Redlands Surprise'syn 116/90	5(3) 19				6(4) 54	
'Rosa Linda'	12(3) 12					
'Saaid'	5(4) 32				11(4) 55	
'Santana'	2(4) 39	5(2) 7	6(2) 4		9(2) 63	
'Selene'	12(3) 12					
'Selva'	2(4) 39	5(2) 7	6(2) 4			
'Shalom'	5(4) 32				11(4) 55	
'Smadar'	5(4) 32					
'Sunset'	6(3) 45					
'Sweet Charlie'	9(1) 7	12(4) 63				
'Talee' syn 90-008-793	10(1) 11			10(4) 64		
'Tallara' syn 88-022-296	10(1) 11			10(4) 64		
'Yael'	10(4) 14					
Freesia hybrid						
'Varayel' syn Rapid Yellow	10(2) 12					

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Galtonia						
candicans						
'Moonbeam'	4(1) 25	4(2) 8	6(1) 6			
Gaura						
lindheimeri						
'Corrie's Gold'	6(4) 7	8(3) 12	9(2) 60		11(2) 56	
'Jo Adela'	6(4) 7	8(3) 12	9(2) 60		11(2) 56	
'Siskiyou Pink'	10(2) 12	12(3) 25				
'Siskiyou Compact Pink'	11(4) 11					
'Siskiyou PGA 1'	12(2) 11					
'So White'	10(4) 11	12(4) 42				
Gazania						
hybrid						
'Sunabout' syn G10/0003	9(4) 8	11(4) 24	12(3) 55			
Geranium						
'Pink Spice'	8(4) 6	9(4) 30	10(3) 54			
Gleditsia						
triacanthos var. inermis						
'Limegold'	10(2) 12	10(4) 30	11(3) 52			
Glycine						
latifolia						
'Capella' syn CQ3368	7(1) 7	7(2) 26	8(1) 38		10(4) 65	
max						
'9351'†				10(3) 56		
'9521'†				10(3) 56		
'9582' syn Soya 582	5(1) 25	6(4) 15	7(4) 41	6(4) 54	11(4) 55	
'9641' syn Soya 641	5(1) 25	6(4) 16	7(4) 41	6(4) 54	11(4) 55	
'9791' syn Soya 791	5(1) 25	6(4) 17	8(4) 50	6(4) 54		
'A5474'	1(3) 13	2(2) 5	3(1) 4	2(1) 15	6(2) 5	
'A5939'	1(3) 13	2(2) 4	3(1) 4	2(1) 15		
'A5980'	4(1) 25				8(1) 39	
'A6520'	2(2) 31	2(2) 7	3(1) 4		6(2) 5	
'Cawana' syn NH3-30-1	9(3) 12	9(4) 40	10(3) 54			
'Deltapine 726'	8(1) 6				9(1) 37	
'Koala' syn 39/11	6(2) 33				7(3) 49	
'Manark'	2(1) 15	2(2) 6	3(1) 4			2(3) 23
'Melrose'	11(1) 9	11(3) 47	12(2) 70			
'Nitrobean 60' syn PS16	7(2) 7	7(4) 31			8(4) 51	
'Oxley'	4(2) 23	4(3) 19	5(3) 5		10(2) 60	
'PNR 2'	5(1) 25				6(1) 31	
'PNR 7'	5(1) 25				6(1) 31	
'PNR10'†				6(4) 54		
'PNR3'†				6(4) 54		
'PNR6'†				6(4) 54		
'Soya 351'	9(1) 7	9(4) 39	10(3) 55	10(3) 56	11(4) 55	
'Soya 521'	8(2) 6	9(4) 40	10(3) 55	10(3) 56	11(4) 55	
'Warrigal'	5(2) 14	5(2) 14	6(4) 53			
Gossypium						
hirsutum						
'CS 50'	5(1) 24	5(2) 12	6(2) 5			
'CS 7S'	5(1) 25	5(2) 12	6(2) 5			
'CS 8S'	7(2) 7	8(1) 11	8(4) 49			
'DeltaEMERALD'	10(4) 11	11(4) 22	12(3) 55			
'DeltaGEM'	9(4) 8	10(3) 17	11(2) 53			
'DeltaJEWEL'	10(4) 11	11(4) 22	12(3) 55			
'DeltaOPAL'	10(4) 11	11(4) 23	12(3) 55			
'DeltaPEARL'	9(4) 8	10(3) 18	12(1) 69			12(1) 74
'DP 5415' syn Blanca	6(4) 8	8(2) 9	9(1) 35	12(4) 103		

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'DP 5690' syn Linda	6(4) 8	8(2) 11	9(1) 36	12(4) 103		
'DP 891' syn DPX 891 & DP 5891	5(3) 18	7(3) 13	8(2) 30		11(2) 56	
'Rainbow-34'	8(4) 5	9(3) 23	10(2) 55			9(4) 57
'Rainbow-39'	8(3) 5	9(3) 24	10(2) 55			9(4) 57
'Sicala 34'	5(1) 25	5(2) 13	6(2) 5			
'Sicala 40'	11(3) 10	12(3) 23				
'Sicot 41'	12(3) 10					
'Sicala V-2'	7(2) 7	8(1) 12	8(4) 49			
'Sicala V-2i'	9(3) 9	10(3) 18	11(2) 53			
'Sicala V-2RR'	12(1) 11					
'Sicot 189'	9(2) 6	9(2) 18	10(1) 47			
'Sicot 189i'	12(3) 10					
'Sicot 189RR'	12(1) 11					
'Sicot 50i'	9(3) 9	10(3) 19	11(2) 53			
'Sicot 53'	12(3) 10					
'Sicot S-8i'	9(3) 9	10(3) 19			11(2) 56	
'Siokra L-23i'	9(3) 9	10(3) 20	11(2) 53			
'Siokra L23'	5(1) 25	5(2) 13	6(2) 5			
'Siokra S-101'	9(2) 6	9(2) 19	10(1) 47			
'Siokra V-15'	7(2) 7	8(1) 13	8(4) 49			
'Siokra V-15i'	9(3) 9	10(3) 20	11(2) 53			
'Siokra V-16'	10(4) 11	11(2) 20	12(1) 69			
'Siokra V-17'	12(3) 10					
Grevillea						
hybrid						
'Birdsong'	12(3) 10					
'Burke 1'	12(3) 10					
'Burke 2'	12(3) 10					
'Burke 3'	12(3) 10					
'Coastal Dawn'	12(4) 11					
'Coastal Sunset'	12(4) 11					
'Dot Brown'	9(1) 5	9(3) 28	10(2) 56			
'Golden Lyre'	10(1) 9				11(1) 65	
'Golden Yul Lo'	8(1) 4	9(1) 18	9(4) 55			
'Landcare' syn Piccolo Pink	7(1) 7	9(2) 23	10(1) 47			
'Sunkissed Waters'	4(2) 23	4(2) 11	5(2) 6			
'VJ 62'	10(4) 11	11(3) 21	12(2) 68			
juniperina						
'Allyn Radiance'	9(1) 5	9(4) 31	11(1) 63			
longistyla x venusta						
'Firesprite'	10(3) 9				11(4) 55	
x variegata						
'Honey Wonder'	4(3) 26	4(4) 12	5(4) 5	9(3) 73		
robusta						
'Silky Lace'	10(4) 11			10(4) 64	11(4) 55	
'VIC 97-11'				10(4) 64		
Gypsophila						
paniculata						
'Dangyhappy' syn Happy Festival	9(2) 5	10(4) 25	11(3) 51			
'Dangypmini'	11(1) 8			11(4) 55		
'Dagysha' syn Yukinko	11(2) 12					
'Festival' syn Pink Festival	8(2) 3	10(4) 27	11(3) 51			
'Magic Arbel'	9(2) 5	10(4) 25	11(3) 51			
'Magic Gilboa' syn Gilboa	8(2) 3	10(4) 26	11(3) 51			
'Magic Golan' syn Golan	8(2) 3	10(4) 26	11(3) 51			
'Magic Tavor'	9(2) 5	10(4) 27	11(3) 51			
'White Festival'	8(2) 3	10(4) 27	11(3) 51			

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Hardenbergia						
violacea						
'Bushy Blue'	7(2) 9	7(4) 33	8(3) 52	9(3) 73		
'Free 'N' Easy'	6(1) 29	6(3) 20	7(2) 29	6(3) 46 9(3) 73		
'Mini Magic'	8(3) 6				9(4) 57	
'Mini-Haha'	3(2) 34	3(2) 31	4(1) 4			
'Pink Fizz'	5(3) 20	5(4) 31	6(3) 6		8(4) 52	
'Purple Falls'	4(3) 26	5(1) 11	6(4) 52	9(2) 62		9(2) 63
'White Out'	12(1) 11					
'Winter White'	10(2) 11				11(3) 54	
Hebe						
hybrid						
'Gold Beauty'	10(4) 11	12(3) 26				
'Heebie Jeebies'	12(2) 11					
'Rosie'	7(1) 5	11(1) 19	11(4) 51			
'Southern Skies'	12(4) 11					
'Southern Sunrise'	12(4) 11					
Hedysarum						
coronarium						
'Necton'	3(3) 26	3(3) 19	7(2) 28		9(1) 37	
Helianthus						
annuus						
'Daniel'	7(3) 5	9(2) 50	10(1) 49			9(3) 74
Helipterum						
anthemoides						
'Paper Cascade'	4(2) 23	4(4) 8	5(3) 6			
'Paper Star' syn APS 91/B1	6(1) 27	6(4) 42	7(4) 41			
Heliotropium						
'Atlanta'	12(4) 11					
Hemerocallis						
hybrid						
'Black Eyed Stella'	9(3) 9			10(3) 56		
'Lemon Baby' syn 207-A	8(3) 6	9(4) 26	10(3) 53		11(3) 54	
'Peach Baby' syn 207-B	8(3) 6	9(4) 26	10(3) 53			
Heterocentron						
roseum						
'Green Cascade' syn Stargazer	4(4) 23	4(4) 20	5(3) 6		7(3) 49 8(4) 52	
Hibiscus						
rosa-sinensis						
'West Coast Jewel'	9(1) 5	11(2) 22		12(3) 57		
'West Coast Red'	9(1) 5	11(2) 23		12(3) 57		
Homalomena						
'Good As Gold'	8(3) 6	10(3) 23	11(2) 53	9(3) 73	11(4) 55	
Hordeum						
vulgare						
'Barque' syn WI 2868	10(1) 8	11(1) 10	11(4) 51	11(3) 54		
'Cask' syn Ashton	4(3) 26	4(4) 12	6(1) 5	4(4) 23 5(4) 35	12(4) 103	6(2) 35
'Chieftain' syn 1846-4139	8(2) 3	9(2) 13	10(1) 47			
'Dash' syn NFC 902/909	8(1) 3	9(2) 14	10(1) 47			
'Doolup'	11(4) 10	12(1) 23	12(4) 99			

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'Dictator'	10(2) 11	11(1) 12	11(4) 51			
'Empress' syn 90BE32	8(2) 3	9(2) 14	10(4) 61		12(4) 103	
'Fitzgerald'	10(2) 11	11(1) 12	12(1) 69			10(3) 57
'Franklin'	2(2) 30	2(2) 22	3(1) 4			
'Gairdner'	10(2) 11	11(1) 14	12(1) 69			10(3) 57
'Keel'	12(2) 10					
'Lindwall'	11(2) 12					
'Molloy' syn WABAR519	9(4) 8	10(1) 13	10(4) 61			
'Monarch'†				9(4) 57		
'Morrell' syn 82SN:513	6(4) 9	8(1) 10	8(4) 49			7(2) 29
'Mundah'	9(4) 8	11(1) 15	12(1) 69			
'Osprey' syn Galaxy	6(2) 31	7(3) 22	8(2) 30			
'Picola' syn 86045B	9(2) 5	10(2) 22	11(1) 62	10(2) 59		
'Sloop'	10(2) 11	11(1) 15	11(4) 51			
'Unicorn' syn Kinukei 21	10(4) 10	11(4) 14	12(3) 55			
'Venture' syn NFC 1243-11	8(1) 3	9(2) 15	10(1) 47	9(4) 57		
'Wyalong'	11(4) 10	12(1) 24	12(4) 99			
Hosta						
xtardiana						
'June'	10(4) 13					
Humulus						
lupulus						
'Furano No.18'	7(2) 8	12(1) 30	12(4) 99	8(3) 53		
'Hokuto Ace'†				8(3) 53		
Hydrangea						
macrophylla						
'Helen Rankin'	6(2) 32				8(4) 51	
'Hobella'	9(1) 5					
'Homigo' syn HK901	11(3) 10					
'Hopaline' syn HK909	11(3) 10					
'Kirsten' syn HOR4	5(2) 36	5(3) 10	6(2) 4		8(4) 51	
'LK49' syn HOR5	5(3) 10	5(3) 10	6(2) 5		8(4) 51	
'Messalina'	5(3) 17				8(4) 51	
'Rotenfels'	5(3) 17				8(4) 51	
Hymenosporum						
flavum						
'VIC 97-12'	10(4) 12				12(1) 73	
Hypericum						
androsaemum						
'Bosadua syn Dual Flair	10(3) 12	12(2) 61				
'Bosakin' syn King Flair	10(3) 12	12(2) 61				
'Bosapin' syn Pinky Flair	10(3) 12	12(2) 62				
'Bosaque' syn Queen Flair	10(4) 14	12(2) 63				
'Bosasca' syn Scarlet Flair	10(3) 12	12(2) 63				
'Hippie'	10(4) 14				12(2) 71	
Iberis						
gibraltarica						
'Mount Hood Dusk'	7(4) 6			10(1) 50	10(2) 60	
pruitii						
'Candy Glow' syn 89-105	5(1) 24				7(2) 29	
sempervirens						
'White Cloud'	5(3) 19				7(1) 33	

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Impatiens						
hawkeri						
'Antigua' syn Kitigua	5(2) 33	5(2) 33	6(1) 6	8(4) 51	11(1) 66	
'Aruba' syn Kiruba	5(2) 33	5(2) 33	6(1) 6	8(4) 51	11(1) 66	
'Barbados' syn Kibados	5(2) 30	5(2) 30	6(1) 6	8(4) 51	11(1) 66	
'Bora Bora' syn Kibora	5(2) 31	5(2) 31	6(1) 6	8(4) 51	11(1) 66	
'Fiji' syn Kiji	5(2) 32	5(2) 32	6(1) 6	8(4) 51	11(1) 66	
'Isis' syn Butterfly Impatiens	5(2) 25	5(2) 25	6(1) 6	8(4) 51	10(2) 60	
'Lanai' syn Kinai	5(2) 30	5(2) 30	6(1) 6	8(4) 51	11(1) 66	
'Marpesia'		5(2) 31	5(2) 31	6(1) 6	8(4) 51	
'Maui' syn Kima	5(2) 29	5(2) 29	6(1) 6	8(4) 51	11(1) 66	
'Melissa' syn Butterfly Impatiens	5(2) 27	5(2) 27	6(1) 6	8(4) 51	10(2) 60	
'Octavia' syn Butterfly Impatiens	5(2) 26	5(2) 26	6(1) 6	8(4) 51		
'Papete' syn Kipete Paradise	5(2) 28	5(2) 28	6(1) 6	8(4) 51	11(1) 66	5(3) 21
'Samoa' syn Kimoa	5(2) 29	5(2) 29	6(1) 6	8(4) 51	10(2) 60	
'Sphinx' syn Butterfly Impatiens	5(2) 25	5(2) 25	6(1) 6	8(4) 51	11(1) 66	
'Tahiti' syn Kiti	5(2) 32	5(2) 32	6(1) 6	8(4) 51		
'Tobago' syn Kibago	5(2) 27	5(2) 27	6(1) 6	8(4) 51	10(2) 60	
'Tonga' syn Kinga	5(2) 27	5(2) 27	6(1) 6	8(4) 51	11(1) 66	
'Trinidad' syn Kinida	5(2) 28	5(2) 28	6(1) 6	8(4) 51	11(1) 66	
'Yuletide' syn No. 92/650	6(2) 33				9(2) 62	
hawkeri hybrid						
'Anaea'	4(1) 25	4(1) 13	4(4) 5	8(4) 51	10(4) 65	
'Apollon'	2(3) 23	2(4) 6	3(3) 5	8(4) 51	10(4) 65	
'Arctia' syn Aglia	2(3) 23	2(4) 20	3(3) 6	8(4) 51	10(4) 65	2(4) 39
'Argus'	2(3) 23	2(4) 6	3(3) 5	8(4) 51	10(4) 65	
'Aurore'	2(3) 21	2(4) 6	3(3) 5	8(4) 51	7(3) 49	8(4) 52
'Celerio'	2(3) 23	2(4) 8	3(3) 5	8(4) 51	10(4) 65	
'Celsia'	4(1) 25	4(1) 12	4(4) 5	8(4) 51	10(4) 65	
'Delias'	2(3) 23	2(4) 8	3(3) 5	8(4) 51	10(4) 65	
'Dunya'	4(1) 25	4(1) 13	4(4) 5	8(4) 51	10(4) 65	
'Epia'	2(3) 23	2(4) 8	3(3) 5	8(4) 51	10(4) 65	
'Eurema'	2(3) 23	2(4) 12	3(3) 5	8(4) 51	10(4) 65	
'Flambee'	2(3) 23	2(4) 12	3(3) 5	8(4) 51	10(4) 65	
'Isopa'	3(2) 34	3(2) 29	4(1) 4	8(4) 51	10(2) 60	
'Jasius'	2(3) 23	2(4) 12	3(3) 5	8(4) 51	10(4) 65	
'Lysandra'	3(2) 34	3(4) 19	4(4) 5	8(4) 51	10(4) 65	
'Marumba'	2(3) 23	2(4) 14	3(3) 5	8(4) 51	10(4) 65	
'Mimas'	2(3) 23	2(4) 14	3(3) 5		7(3) 49	8(4) 52
'Petula'	3(2) 34	3(2) 30	4(1) 4	8(4) 51	10(2) 60	3(4) 38
'Phoebis'	2(4) 39	2(4) 20	3(3) 6		7(3) 49	
'Saturnia'	2(3) 23	2(4) 14	3(3) 5	8(4) 51	10(4) 65	
'Selenia'	2(3) 23	2(4) 18	3(3) 5	8(4) 51	10(4) 65	
'Sesia' (1st Application)	2(3) 23				2(4) 38	
'Sesia' (2nd Application)	4(1) 25	4(1) 11	4(4) 5		10(4) 65	
'Sylvine'	2(4) 39	2(4) 20	3(3) 6		7(3) 49	8(4) 52
'Thecla'	2(3) 23	2(4) 18	3(3) 5		7(3) 49	8(4) 52
'Vulcain'	2(3) 23	2(4) 18	3(4) 4	8(4) 51		
hybrid						
'Ambience'	7(3) 9	10(3) 24	11(4) 51			
'Ambrosia' syn Lasting Impressions	5(4) 34	6(4) 31	7(4) 39	7(1) 33		
'Antares' syn Lasting Impressions	5(4) 34	6(4) 27	7(4) 39	7(1) 32	11(4) 55	
'Blazon' syn Lasting Impressions	5(4) 33	6(4) 25	7(4) 38	7(1) 32	11(4) 55	

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'BFP-368 Rose' syn Rose Celebration	11(1) 8	12(2) 36		12(2) 70		
'BFP-523 Deep Red' syn Celebration Deep Red	11(1) 8	12(2) 34		12(2) 70		
'BSR-152 Dark Pink' syn Celebration Deep Pink	11(1) 8	12(2) 33		12(2) 70		
'BSR-186 Bonfire Orange' syn Celebration Orange Bonfire	11(1) 8	12(2) 35		12(2) 70		
'Celebration Candy Pink'	7(3) 5	10(3) 25	11(2) 53			
'Celebration Bright Coral'	7(3) 5	8(3) 13	9(2) 60		11(2) 56	
'Celebration Deep Pink'†				12(2) 70		
'Celebration Deep Red'†				12(2) 70		
'Celebration Hot Pink'	7(3) 5	8(3) 14	9(2) 60		11(2) 56	
'Celebration Cherry Star'	7(3) 5	8(3) 13	9(2) 60		11(2) 56	
'Celebration Lightlavender'	7(3) 5				8(3) 53	
'Celebration Orange Bonfire'†				12(2) 70		
'Celebration Pure White' syn BSR-203	7(3) 5	8(3) 14	9(2) 60			
'Celebration Purple Star'†				12(2) 70		
'Celebration Salmon' syn BSR-195	7(3) 5	8(3) 15	9(2) 60		11(2) 56	
'Charade' syn Lasting Impressions	5(4) 34	6(4) 41	7(4) 38	7(1) 33	11(4) 56	
'Danigoldy' syn Goldy Gini	11(3) 10				12(2) 71	
'Danilily' syn Lily Gini	11(3) 10				12(2) 71	
'Daniwiny' syn Winy Gini	11(3) 10				12(2) 71	
'Micky Gini' syn GN5	11(3) 10				12(2) 71	
'Pinki Gini' syn GN1	11(3) 11				12(2) 71	
'Ricky Gini' syn GN4	11(3) 11				12(2) 71	
'Debbie' (1st Application)	8(1) 4					
'Debbie' (2nd Application)	8(1) 4				9(4) 57	
'Heathermist' syn Lasting Impressions	5(4) 33	6(4) 25	7(4) 38	7(2) 32	11(4) 55	
'Illusion' syn Lasting Impressions	5(4) 33	6(4) 24	7(4) 38	7(1) 32		
'Innocence' syn Lasting Impressions	5(4) 34	6(4) 32	7(4) 39	7(2) 33		
'Kallima'	12(2) 13					
'Kiala' syn Moala	12(2) 13					
'Kibon' syn Bonaire	11(2) 13					
'Kigre' syn Grenada	11(2) 13					
'Kigula' syn Tagula	12(2) 13					
'Kilyci' syn Lycia	12(2) 12					12(4)
'Kimoo' syn Moorea	11(2) 13					
'Kimpgua'	12(2) 13					
'Kimps' syn Samoa Pearl	11(2) 13					
'Kincoc' syn Noctua	12(2) 13					
'Kinep' syn Neptis	12(2) 13					
'Kipag' syn Pago Pago	11(2) 13					
'Kipas' syn Pascua	12(2) 13					
'Kirawa' syn Tarawa	12(2) 13					
'Kispix' syn Spixis	12(2) 13					
'Kitim' syn Timor	11(2) 13					
'Kitoga' syn Toga	12(2) 13					
'Kiwoya' syn Woya	12(2) 13					
'Kixant' syn Xanthia	12(2) 13					

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'Nebulous' syn						
Lasting Impressions	5(4) 34	6(4) 28	7(4) 39	7(2) 32	11(4) 55	
'Radiance' syn						
Lasting Impressions	5(4) 34	6(4) 27	7(4) 38	7(2) 32	11(4) 55	
'Rosetta' syn						
Lasting Impressions	5(4) 34	6(4) 26	7(4) 38	7(1) 32	11(4) 55	
'Rose Celebration'†				12(2) 70		
'Prepona'	11(2) 13					
'Purple Star' syn						
Celebration Purple Star	11(1) 8	12(2) 36		12(2) 70		
'Shadow'	7(3) 9	10(3) 25	11(4) 51			
'Tempest'	7(3) 9	10(3) 25	11(4) 51			
wallerana						
'Becky'	7(4) 5				9(1) 37	
'Burgundy Rose' syn						
'Codiampca'	12(4)					
'Fiesta Burgundy Rose	8(1) 4	9(3) 29	10(2) 56	10(2) 59		
'Golden Anniversary'	7(1) 8	9(2) 25	10(1) 47		11(2) 56	
'Golden Girl'	6(2) 32	9(2) 25	10(1) 48			
'Golden Surprise'	7(1) 8	7(3) 42	9(2) 60			
'Laser Purple Flare'	10(2) 12				10(3) 56	
'Laser Red Flash'	10(2) 12				10(3) 56	
'Lavender Orchid' syn Fiesta						
Lavender orchid double	11(1) 8	12(2) 29		12(2) 70		
'Leah'	8(1) 4				10(3) 56	
'Pink Ruffle' syn Fiesta						
Pink Ruffle	11(1) 8	12(2) 30		12(2) 70		
'Rebecca'	8(1) 4				10(3) 56	
'Salmon Sunrise' syn						
Fiesta Salmon Sunrise	8(1) 4					
'Fiesta Lavender Orchid						
Double'†				12(2) 70		
'Fiesta Pink Ruffle'†				12(2) 70		
'Fiesta Salmon Sunrise'	8(1) 4	9(3) 29	10(2) 56	10(2) 59		
'Salsa Red' syn Fiesta						
Salsa Red	8(1) 4	9(3) 30	10(2) 56	10(2) 59		
'Fiesta Sparkler Rose						
Double'†				12(2) 70		
'Sparkler Rose' syn Fiesta						
Sparkler Rose Double	11(1) 8	12(2) 30		12(2) 70		
'Sparkler Salmon' syn						
Fiesta Sparkler Salmon	8(1) 4	9(3) 30	10(2) 56	10(2) 59		
'Tropical Orange' syn						
Fiesta Tropical Orange	8(1) 4	9(3) 31	10(2) 56	10(2) 59		
'Fiesta White'	11(1) 8	12(2) 31				
Isopogon						
anemonifolius						
'Woorikee 2000'	9(3) 9	9(3) 23	10(4) 61			
Isotoma						
axillaris						
'Sapphire Star'	10(4) 12	11(4) 25	12(3) 55			
hybrid						
'Sapphire Star Pink'	10(4) 12				11(4) 55	
Jasminum						
polyanthum						
'Gentle Giant'	12(2) 12					
Juniperus						
conferta						
'Aussie Green N Gold'	9(2) 9	11(1) 43	11(4) 53			
'No. 001'	10(1) 10	11(1) 44	11(4) 53			

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horizontalis						
'Monber Icee Blue' syn Icee Blue	12(3) 10					
scopularum						
'Blue Arrow'	6(1) 29	9(3) 31	10(2) 56			
Kalanchoe						
blossfeldiana						
'Blues'	3(2) 34	4(1) 7	5(1) 7	8(4) 51	9(1) 37	3(3) 26
'Mazurka'	3(2) 34	4(1) 7	5(1) 7	8(4) 51	10(2) 60	3(3) 26
'Polka'	3(2) 34				6(4) 54	3(3) 26
'Tarantella'	3(2) 34				6(4) 54	3(3) 26
hybrid						
'Elves Bells'	10(4) 12	12(3) 26				
Koeleria						
cristata						
'Barkoel'	7(1) 7	8(1) 13	8(4) 49			
Kunzea						
pomifera						
'Rivoli Bay'	9(2) 7					
Lablab						
purpureus						
'Endurance'	11(2) 14	11(4) 26	12(3) 55	12(3) 57		
'Endurance' syn Longlife†				12(3) 57		
'Koala' syn Q6880	8(1) 4	9(1) 19	9(4) 55			
Lactuca						
sativa						
'45-70 RZ'†				11(2) 56		
'83-95 RZ'†				11(2) 56		
'85-53 RZ' syn Concorde RZ	10(4) 12	11(2)24	12(1) 70	11(2) 56		
'Bronco' syn A15	7(3) 6					
'Bulls Eye' syn Chifley		1(4) 5	2(3) 4	2(1) 15	8(3) 53	
'Diamond'	7(1) 5	7(4) 28	9(1) 36			
'Frillice' syn RS-892108	6(4) 8				9(4) 57	
'Greenway'	3(1) 37	3(1) 7	3(4) 4		11(4) 56	
'Iglo' syn 45-75 RZ	8(4) 6	11(2) 24	12(1) 70			
'Impact' syn J6N, PSR301	5(1) 23	5(1) 23	6(1) 7		10(1) 50	
'Kendai' syn 83-95 RZ	10(4) 12	11(2) 25	12(1) 70	11(2) 56		
'Kristine' syn 83-37 RZ	8(4) 6	10(2) 37	11(1) 63			
'Magnum' syn MR7, PSR 2018	5(2) 24	5(2) 24	6(3) 6		11(2) 56	
'Marksman'	7(4) 6	7(4) 37	8(3) 52		11(3) 54	
'Mustang' syn R-83	7(3) 6					
'Remus' syn 41-20 RZ	8(4) 6	11(2) 25	12(1) 70			
'Rodeo' syn SPS 671	6(4) 8				7(2) 29	
'Rubette' syn 45-70 RZ	10(4) 12	11(2) 26	12(1) 70	11(2) 56		
'Target'	1(3) 13	1(4) 6	2(3) 4		11(4) 56	
'Wintersalad'	1(3) 13	3(1) 7	5(2) 5		9(1) 37	
Lantana						
montevidensis						
'Malans Gold'	7(4) 5	9(2) 26	10(1) 48		11(1) 66	
'Rosie'	6(3) 45				11(2) 56	
sellowiana						
'Monswee' syn Lavender Swirl	5(2) 35	7(1) 10	8(3) 52			7(2) 29 8(3) 53
Lathyrus						
'Lath-BC'	8(4) 6				12(3) 57	
'Canopus' syn IFLA1279					11(1) 65	

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Lavandula						
angustifolia						
'Avice Hill' syn Impression	11(2) 14					
dentata						
'Pure Harmony'	10(2) 12	11(3) 21	12(2) 68			
hybrid						
'Henri Dunant'	6(3) 46	8(3) 21	9(2) 61			
'Schola' syn Blue Cushion	10(1) 9					
'Sidonie'	6(4) 7	8(2) 14	9(3) 71			9(3) 74
'Silver Feather'	10(1) 10	11(4) 31				
pedunculata						
'Willowbridge Wings'	11(2) 13	12(4) 46				11(2) 56
'Willowbridge White'	8(3) 6	10(1) 18	10(4) 62			
'Willowbridge Snow'	10(4) 12			11(4) 55		11(2) 56
pinnata						
'White Lace' syn O'malley	7(3) 6				10(3) 56 11(4) 55	
stoechas						
'Bee Bright'	12(4) 11					
'Bee Brilliant'	12(4) 11					
'Bee Cool'	12(4) 11					
'Bee Dazzle'	10(3) 9	11(4) 28	12(3) 55			
'Bee Happy'	12(4) 11					
'Bella Bambina'	10(3) 9	11(4) 29	12(3) 55			
'Bella Mauve'	12(4) 11					
'Bella Pink'	12(4) 11					
'Bella Purple'	12(4) 11					
'Bella White'	12(4) 11					
'Darling Crown'	9(1) 6	12(4) 45		11(4)		
'Helmsdale'	7(1) 5	9(1) 19	9(4) 55			
'Magenta Aurora' syn Swan River Pink	8(4) 6	10(1) 17	10(4) 62	10(1) 50		
'Marshwood'	7(1) 5	9(1) 19	9(4) 55			
stoechas ssp *pedunculata*						
'Pukehou'	9(3) 10	12(2) 32				
stoechas ssp *luisieri*						
'Lavenite No.1'†				12(3) 57		
'Tickled Pink'	11(3) 11	11(4) 30		12(3) 57		
xallardii						
'Majella'	10(2) 12				11(3) 54	
Lechenaultia						
biloba						
'Autumn Blue'	2(3) 21	4(1) 5	4(4) 5		8(1) 39	4(2) 24 5(1) 26 8(4) 52
formosa						
'Fantail Starburst'†				2(2) 31		
'Flamingo' syn Fantail Flamingo	1(4) 23	1(4) 13	2(3) 4	2(2) 31	7(3) 49	
'Starburst'	1(4) 23	1(4) 13	2(3) 4	2(2) 31	7(3) 49	
hybrid						
'Fantail Ultraviolet'†				2(2) 31		
'Ultraviolet'	1(4) 23	1(4) 13	2(3) 4	2(2) 31	7(3) 49	
Lens						
culinaris						
'Cassab' syn Ill 7200	10(3) 9				11(1) 65	
'Cumra' syn LEN29610	10(3) 9				11(1) 65	
'Northfield' syn Ill 5588	8(1) 4	10(4) 30				

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Leptospermum						
hybrid						
'Bywong Merinda'	9(3) 12	10(1) 40	10(4) 63			
'Dreamtime	12(4) 14					
'Love Affair'	12(4) 14					
'Outrageous'	12(4) 14					
'Pageant'	12(4) 15					
'Rudolph'	10(4) 15	12(4) 88				
'White Wave'	12(4) 15					
laevigatum						
'Beach Baby'	11(4) 12					
liversidgei						
'BY11'	10(4) 15	12(1) 58				
rotundifolium x spectabile						
'Rhiannon'	7(3) 7	8(1) 35	8(4) 49			
scoparium						
'Freya'	10(4) 15	11(4) 46	12(3) 56			
spectabile hybrid						
'Aphrodite'	5(3) 18	6(1) 26	6(4) 53			
Leucadendron						
hybrid						
'Katie's Blush'	3(3) 26	4(1) 8	5(1) 7	7(3) 48		4(2) 23
gandogerii x spissifolium						
'Corringle Gold'	12(1) 12					
'Our Vision'	7(1) 7 8(1) 4	11(4) 31	12(3) 55	10(3) 56		10(3) 57
'World Vision'†				10(3) 56		
Leucaena						
leucocephala						
'Tarramba' syn K636	8(3) 6	10(1) 19	10(4) 62			
Leucospermum						
condifloium x patersonii						
'High Gold'	7(4) 7	10(4) 38				
erubescens x cuniforme						
'Marmalade'	11(4) 11					
Ligustrum						
undulatum						
'Lemon Lime and Clippers'	9(4) 9	10(4) 34	11(3) 52			10(3) 57
Lilium						
hybrid						
'Acapulco'	9(2) 7			12(1) 73		
'Arena'	9(2) 7			12(1) 73	12(4) 102	
'Barbaresco'	9(3) 10			12(1) 73		
'Bergamo'	9(3) 10			12(1) 73	12(4) 102	
'Bernini'	9(3) 10			12(1) 73		
'Colonna'	9(3) 10			12(1) 73	12(4) 102	
'Galilei'	9(3) 10			12(1) 73	12(4) 102	
'Hoffrica Blue Eyes'	11(2) 14					
'Lombardia'	9(3) 10			12(1) 73		
'Miami'	9(3) 10					
'Mona Lisa'	2(3) 23	4(4) 5	5(4) 5		9(3) 74	
'Nippon'	9(2) 7			12(1) 73	12(4) 102	
'Our Medusa'	9(3) 10			12(1) 73		
'Rosato'	9(3) 10			12(1) 73	12(4) 102	
'Sartre'	9(3) 10			12(1) 73	12(4) 102	
'Siberia'	8(1) 4	12(1) 33	12(4) 99			
'Simplon'	9(3) 10			12(1) 73		
'Sorbonne'	9(3) 10			12(1) 73		
'Spinoza'	9(3) 10			12(1) 73	12(4) 102	

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'Tiber'	9(3) 10			12(1) 73		
'Topsy'	12(3) 11					
'Venezia'	2(3) 23	4(2) 4	5(2) 5		8(1) 39	8(4) 52
'Woodriff's Memory'	9(3) 10			12(1) 73		
sp						
'Geneve'	2(3) 23				3(1) 36	
'Grand Cru'	2(3) 23				3(1) 36	
'Lucca'	2(3) 23				3(1) 36	
'Menton'	2(3) 23				3(1) 36	
'Monte Rosa'	2(3) 23				3(1) 36	
'Sancerre'	2(3) 23				3(1) 36	
'Toscane'	2(3) 23				3(1) 36	
Limonium						
altaica						
'Emille'	4(2) 23	6(4) 10	7(4) 39		10(4) 65	
'Pink Emille'	5(4) 33	6(4) 23	7(4) 40		10(4) 65	
'Tall Emille'	7(3) 8	9(3) 34	10(2) 56			
caspium x latifolium						
'Beltlaard'	4(2) 23	6(4) 11	7(4) 39		10(4) 65	
hybrid						
'Daicean' syn						
Ocean Blue	5(3) 17	6(4) 20	7(4) 40			
'Misty White'†				10(1) 50		
'Oceanic Blue'	5(3) 17	6(4) 20	7(4) 41			
'Oceanic White'	5(3) 17	10(4) 31	11(3) 53	10(1) 50		
'Saint Pierre'	4(2) 23				7(2) 29	
perezii						
'Cosita'	10(4) 14	12(1) 32	12(4) 101			
peregrinum						
'Ballerina Rose'	3(2) 34	7(3) 9	8(3) 52		10(2) 60	11(2) 56
sinuatum						
'Crystal Yellow'	5(4) 33				7(3) 49	
'La Mer'	5(4) 33				7(3) 49	
'Lavender Emille'	5(4) 33				7(3) 49	
'Sunday Light Blue'	5(4) 33				7(3) 49	
'Sunday Pink'	5(4) 33				7(3) 49	
Linum						
usitatissimum						
'ARZY8*11-1-2' syn						
Argyle	9(1) 6				9(4) 57	
'Eyre' syn						
GLZY8*17-258	4(4) 23	5(4) 14	6(4) 53			
'Wallaga' syn						
CRZY8*2-15	4(4) 23	5(4) 13	6(4) 53			
Lithodora						
diffusa						
'The Star'	10(4) 12	11(4) 32				
Lobelia						
erinus						
'True Blue'	8(1) 5	8(2) 14	9(1) 36			9(1) 37
Lolium						
hybrid						
'Grasslands Impact' syn						
G 47	9(1) 7	9(3) 28	11(2) 54			
'Maverick Gold' syn						
CSLh931	8(3) 7	9(2) 24	10(1) 47			
multiflorum						
'Conker' syn						
CSLM91-101	7(1) 9				8(3) 53	

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'Cordura' syn CSLM 90-103	6(2) 31	7(3) 21	8(4) 49			
'Dargle' syn LMD/90	10(1) 9					
'Dargo'	9(1) 5	9(4) 31	11(3) 52			
'Eclipse' syn PG61	6(4) 6	6(4) 51	7(4) 41			
'Flanker'	8(4) 5	9(3) 16	10(2) 56	9(3) 73 11(1) 66		
'LM71'†				10(2) 59		
'Mariner'	8(4) 5	9(3) 17	11(1) 63	9(3) 73 11(1) 65 10(2) 59		
'Noble'	6(3) 44	6(3) 40	8(2) 30			
'Progrow'	1(3) 13	1(4) 7	2(4) 5			
'Robust'	9(1) 5					
'Tabu'	12(1) 10					
perenne						
'Amaroo'	10(4) 13				12(3) 57	
'Arena'	12(3) 11					
'Aries HD' syn CSLP90-102	9(1) 6	10(2) 40				
'Avalon'	10(4) 13	12(1) 43	12(4) 101			12(4) 103
'Banks'	5(3) 20	7(3) 14	8(4) 50	6(2) 34		
'Boomer' syn VPR/89/01	5(4) 32	6(3) 14	7(2) 29			
'Bronsyn'	8(4) 7	9(3) 40	10(2) 57	9(3) 73 11(1) 66		9(4) 57
'Camel'	8(3) 7	10(1) 30	10(4) 63			
'Checkmate'	12(3) 11					
'Cobber'	7(1) 9	10(2) 43	11(4) 52	8(4) 51 11(1) 65		
'CSLP92-109'†				11(1) 65		
'Dobson' syn LP15	6(2) 31	7(3) 20	8(4) 50	11(1) 66		
'Embassy'	4(2) 23	7(3) 10	8(4) 50			
'Fitzroy'	10(3) 10	12(1) 40				12(3) 58
'Grasslands Lincoln' syn G28	5(2) 35	6(3) 11	7(3) 48	7(3) 48		
'Grasslands Pacific'†				7(3) 48		
'Grasslands Samson'	9(1) 6	9(3) 40	11(2) 54			
'Jackaroo'	4(1) 25	5(1) 9	6(1) 7			5(2) 36
'Jamborina'	9(3) 11	10(1) 30	10(4) 63			
'Hilltop'	11(4)					
'LP 147'†	10(1) 10			11(2) 55		
'LP22'†				9(3) 73		
'LP37'†				9(3) 73		
'Meridian'	10(1) 10	11(3) 35	12(2) 69	11(1) 65 11(2) 55		
'Nevis'	8(4) 7	9(3) 43	10(2) 57	9(3) 73 11(1) 66		
'Outback'	9(3) 11					
'Prolong'	9(3) 11	10(1) 30	11(1) 64			
'Quartet'	11(4) 11					
'Resurrection'	11(4) 11					
'Roper'	3(2) 34	6(2) 7	8(1) 38			3(3) 26
'Vedette' syn LP11	5(3) 19	6(4) 21	7(4) 40	11(1) 66		
'Victoca'	9(2) 7	11(3) 36	12(2) 69	12(1) 73		
'Yatsyn 1'	1(3) 13	1(3) 5	2(2) 4	11(1) 66		
perenne x multiflorum						
'Grasslands Greenstone'	3(4) 38	3(4) 20	5(1) 6			
rigidum						
'Guard' syn 236	5(3) 20	7(2) 16	8(4) 49			
Lomandra						
longifolia						
'Cassica'	10(3) 10					
'Green 'N' Gold'					8(3) 53	
'Katrinus'	10(3) 10					
'Limeglow'	7(3) 9				8(4) 51	

	Public Notice	Description	Grant	Varied	Withdrawn/ Surrendered/ Revoked/ Refused	Corrigenda
spicata						
'Joey'	12(2) 12					
Lonicera						
nitida						
'Little Nikki'	12(2) 11					12(3) 58
'Paradise Royal Flush'	11(4) 10	12(4) 23				
Lophostemon						
confertus						
'Billy Bunter'	6(4) 5	9(3) 34	10(2) 56	9(2) 62		
Lotus						
corniculatus						
'Grasslands Goldie'syn G32	5(3) 20	6(2) 24	7(3) 48			
hybrid						
'Merlins Gold' (2nd application)	11(1) 8				12(1) 73	
maculatus x berthelotii						
'Merlin's Gold' (1st application)	6(1) 31				9(1) 37	
pedunculatus						
'Sharnae'	6(4) 5	7(2) 23	8(1) 38		12(1) 73	
Lupinus						
albus						
'Lucyanne'	12(2) 15					
'Lago Azzurro'	8(2) 6	10(1) 19 12(1) 65				
'Ludet'	10(2) 14	12(1) 65	12(4) 100			
'Magna'	11(4) 12	12(1) 67	12(4) 100			
'Minibean'	11(4) 12	12(1) 67	12(4) 100			
angustifolius						
'83A:455'†				9(4) 57		
'Belara'	10(2) 12	11(1) 21	11(4) 52			12(1) 72
'Boongul'†				9(2) 62		
'Kalya' syn WALUP0460	9(4) 9	10(1) 22	10(4) 62			
'Mason'	10(3) 10	11(2)28	12(1) 70			
'Moonah' syn 84S017-26	11(3) 11	12(1) 36	12(4)			
'Myallie' syn 84l:439	9(4) 9	11(1) 21	11(4) 52			
'Quilinock'	12(4) 12					
'Tallerack'	10(2) 12	11(1) 22	11(4) 52			12(1) 72
'Tanjil' syn WALAN0497	11(3) 11	12(1) 37	12(4)			
'Wonga'	9(1) 6	9(4) 32	10(3) 54	9(2) 62 9(4) 57 10(3) 56		10(2) 60
luteus						
'Wodjil'	10(2) 15	11(1) 55	11(4) 54			12(1) 72
Lycopersicon						
esculentum						
'Alka'	7(3) 9				12(1) 73	
'Rollande'	10(3) 12				12(2) 71	
Lysimachia						
congestiflora						
'Golden Harvest'	6(3) 45	10(4) 33	11(3) 52			
'Outback Sunset'	6(2) 32	8(2) 15	9(1) 36			
'Silverbird' syn Silbervogel	5(3) 19	8(2) 16	9(1) 36	7(2) 29	10(1) 50	
'Sunbird'†				7(2) 29		

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Macadamia						
integrifolia						
'Hidden Valley A16'	1(2) 14	1(2) 9	2(1) 4			
'Hidden Valley A4'	1(2) 14	1(2) 7	2(1) 4			
integrifolia x tetraphylal						
'Hidden Valley A38' syn A38	6(1) 28	7(4) 21	8(3) 52			
Macroptilium						
atropurpureum						
'Aztec'	7(1) 7	7(2) 27	8(1) 38			
Magnolia						
hybrid						
'Vulcan'	5(4) 34	9(3) 36	10(2) 57			
Malus						
domestica						
'Baigent'	10(2) 11					
'Belmont Red'	8(3) 4				9(3) 74	
'Big Time'	3(3) 26	4(4) 6	6(1) 7			5(1) 26
'Casey's Red'					11(3) 54	
'Cepiland'	2(3) 23	12(2) 22				
'Charlotte'	12(1) 10	12(1) 21	12(4) 99			
'Coop 23' syn Williams' Pride	8(4) 5	10(4) 18	11(3) 51		12(3) 57	9(2) 63
'Delblush'	10(2) 11	11(2) 17	12(2) 68			
'Delkistar'	10(3) 9					
'Early Pink Lady'†				7(2) 29		
'Elshof'	8(2) 2				9(3) 74	
'Galaxy'	7(1) 9	8(2) 6	9(2) 60			
'Gb 63-43'	5(3) 19	6(2) 15	7(4) 40			6(3) 46
'Gb 125-8'	12(1) 10					
'Ginger Gold' syn Mountain Cove	8(4) 5					
'Gold Lady'	8(3) 4				11(2) 56	
'Honeycrisp' syn MN 1711	8(2) 2					
'Huaguan'	10(2) 10					
'Huashuai'	10(2) 10					
'Joburn'	12(3) 10					
'Jonagored' syn Morren's Jonagored	2(2) 30	9(2) 10	10(1) 47			
'Lancep'	2(3) 23	12(2) 23				12(3) 57
'Lochbuie Red Braeburn'	10(2) 11					
'Merlyn'	7(2) 5					
'Pink Aurora' syn Mason 988.328	10(4) 10					
'Mariri Red'	12(2) 10					
'Obelisk' syn Flamenco	12(1) 10	12(1) 22	12(4) 99			
'Pink Rose'	6(3) 44	8(1) 9	10(3) 52	7(2) 29		
'Rafzubin'	1(4) 23	10(2) 20	11(1) 62	9(3) 73		
'Red Elstar'	2(1) 15	10(3) 13	11(2) 52			
'SA 244-20' syn Maypole	6(2) 33	9(2) 11	10(1) 47			
'SA 251-18' syn Waltz	6(2) 33	9(2) 11	10(1) 47	6(3) 46		
'SA 252-107' syn Polka	6(2) 33	10(4) 18	11(3) 51	6(3) 46		
'SA 256-24' syn Bolero	6(2) 33	10(4) 18	11(3) 51	6(3) 46		
'Sandidge' syn Super Chief	8(2) 2	11(3) 13		11(3) 54		
'Sciearly'	12(2) 10					
'Sciglo' syn Southern Snap†				12(2) 70		
'Sciglo'	10(2) 10	12(2) 21		12(2) 70		
'Scired'	12(2) 10					
'Sciros'	10(2) 10	12(2) 21				
'Southern Star'	4(2) 23				6(1) 31	
'Summertime' syn AG-E-93	7(2) 7	8(2) 7	9(2) 60		11(2) 56	
'Sun Lady' syn Price Spur Sun Lady	6(3) 44					7(1) 33

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'Telamon'†				6(3) 46		
'Tigress'	9(2) 5					
'Trajan'†				6(3) 46		
'Tuscan'†				6(3) 46		
Mandevilla						
sanderi						
'Cinderella'	6(4) 5	9(1) 13	9(4) 55	9(3) 73		
'Guinevere'	11(3) 10	12(4) 47				
'Merlin's Magic'	9(1) 5	9(1) 13	9(4) 55	9(3) 73		
'My Fair Lady'	5(1) 21	5(1) 21	6(1) 5	9(3) 73		8(1) 39
'Pale Face'	7(4) 7 8(1) 5	9(2) 23	10(1) 47			
'Scarlet Pimpernel'	3(2) 34	3(2) 12	4(1) 4			
'Wilma'	10(2) 12				12(3) 57	
x amabilis						
'Beauty Queen'	9(1) 5	9(2) 21	10(1) 47			
'Blushing Queen'	11(2) 14	11(3) 23	12(2) 68			
'Magic Dream'	8(4) 6	9(2) 22	10(1) 47			
'Red Fantasy'	11(2) 14	11(3) 23	12(2) 68			
'Ruby Star'	9(2) 6	10(1) 20	10(4) 61			
'White Delite'	9(2) 6	10(1) 20	10(4) 61			
Mangifera						
indica						
'B74'	11(1) 8			12(4) 103		
'Celebration'	10(1) 10	11(1) 23	11(4) 52			
'Honey Gold'	9(1) 6	12(1) 35	12(4) 100			
'Kensington Red'	8(2) 4	11(1) 25	11(4) 52	8(4) 51		
'Red 1'	11(2) 14					
'TPP 1'	10(1) 10	11(3) 24	12(2) 68			
Medicago						
littoralis						
'Herald' syn Z-245	7(4) 7	9(2) 49	10(1) 49			
sativa						
'5454' syn L34.HQ	6(2) 34	8(4) 43	9(3) 71			
'58N57' syn L90				11(4) 55		
'Aquarius' syn Y8408	6(4) 9	9(3) 35	10(2) 57			
'Encore'†				9(2) 62		
'Eureka'	7(3) 5	10(3) 26	11(2) 53			10(4) 65
'Flairdale'	7(2) 7	10(2) 37	11(1) 64			
'Genesis' syn Y8506	9(2) 7	9(3) 36	10(4) 64			
'Grasslands Crusader'†				11(4) 55 12(4) 102		
'Grasslands Kaituna' syn B 80	9(2) 7	11(4) 35	12(4) 99			
'Grasslands Torlesse'	9(2) 7	11(4) 32		12(4) 102		
'Hallmark'	9(4) 9	11(2) 27	12(2) 68	11(2) 56		
'Jindera'	7(3) 5	10(3) 27	11(2) 53			
'L69' syn 5715	5(2) 36	7(3) 11	8(2) 30			
'Stirling'†				12(4) 102		
'Pioneer 5939'†	11(2) 14			11(4) 55		
'Pioneer 58N57' syn Pioneer L90†	11(2) 14			11(4) 55		
'Pioneer 5681' syn Pioneer L55†	11(2) 14			11(4) 55		
'PR 5681'				11(4) 55		
'PR 5939'				11(4) 55		
'Prime'	4(1) 25	4(1) 18	5(2) 5			
'Quadrella'	3(2) 34	3(3) 18	4(2) 4			
'Rapide'	10(4) 12					
'Salado'	11(3) 11					
'Sceptre' syn L96	5(3) 20	8(1) 16	10(2) 57			

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'Sequel HR' syn CS 93-1	8(3) 6	10(4) 31	11(3) 52	9(2) 62 9(4) 57 11(1) 66		
'Stirling'	12(2) 12					
'Super 7'	12(4) 12					
'UQL-1'	12(2) 12			12(4) 102		
'Venus'	12(4) 12					
'WL 414'	12(1) 12					
sphaerocarpos						
'Orion'	7(2) 7					
tornata						
'Rivoli'	4(2) 23	4(4) 9	5(4) 5			
truncatula						
'Caliph' syn Z-602	5(3) 18	6(1) 26	6(4) 53			5(4) 35
'Jester'	11(4) 10					
'Mogul'	5(2) 35	6(1) 23	7(1) 32			
Melaleuca						
incana						
'Lemon, Lime & Dry'	6(1) 28				11(3) 54	
linariifolia						
'Phytogen'	7(1) 7				8(4) 51	
Melia						
azederach						
'Lady Gwenda'	10(2) 14	12(1) 64				
Mentha						
diemenica						
'Kosciusko'	9(2) 9					
Metrosideros						
excelsa						
'Midas'	3(4) 38		5(3) 5		5(4) 35 7(3) 49	
tomentosa						
'Dalese'	8(4) 6	10(4) 34	11(3) 52			10(4) 65
umbellata						
'Harlequin'	10(4) 14	11(4) 44		12(2) 70		
'YV Harlequin'†				12(2) 70		
Microcitrus						
australasica						
'Pot Of Gold' syn D1					10(1) 50	
australasica var. sanguine						
'Rainforest Pearl' syn T1	10(1) 10			11(4) 55		
'Rainforest Pink Pearl' syn T1†				10(4) 64 11(4) 55		
'Rose Gem'				10(4) 64		
hybrid						
'Australian Blood'	10(1) 9					
'Australian Sunrise'	10(1) 9					
Microlaena						
stipoides						
'Flinders'	8(2) 6					
'Griffin' (1st application)	(3) 6			9(1) 37	8(2) 31	
'Griffin' (2nd application)	8(1) 5	8(1) 27	8(4) 49			
'Shannon' syn 17.2.6.5.12	7(3) 6	8(1) 27	9(1) 36	9(1) 37		

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'Wakefield' syn 39.1.8.2.5	7(3) 6	8(1) 28	9(1) 36	9(1) 37		
Murraya						
paniculata var *ovatifoliata* 'Min-A-Min'	11(2) 14	11(3) 27	12(4) 100			
Musa						
hybrid 'Goldfinger' syn Fhia-01	8(2) 3	9(4) 16	10(3) 52			
Nandina						
domestica 'Gulf Stream'	7(1) 7	8(2) 13	9(1) 36	9(3) 73		
Nasturtium						
hybrid 'Vicred'	10(3) 12	11(2) 50	12(1) 72			
Nemesia						
capensis 'Tic Toc' syn Honeydew	12(1) 12					
Neotyphodium						
lolii 'AR1'	10(1) 9	10(2) 30				
sp 'AR501'	10(2) 11	10(2) 29				
Nephrolepis						
exaltata 'Capricorn Gold'	6(4) 8				11(4) 55	
'Delilah'	8(1) 3				11(1) 65	
Oenothera						
rosea 'Ballerina Hot Pink'syn Prima Donna	8(4) 6	10(1) 17	10(4) 61	9(4) 57	12(4) 103	
Olea						
europaea 'CSS 02 Minerva'	8(4) 6					
'CSS 22 Diana'	11(3) 11					
'DA 12 I'					11(1) 65	
'DRS 01 Urano'	11(3) 11					
'FS 17'					11(1) 65	
Olearia						
axillaris 'Little Smokie'	12(1) 12					
Ornithopus						
compressus 'Charano' syn 87GEH56	10(3) 12	10(3) 51				
'Santorini' syn 87GEH76c	9(2) 7	10(4) 59				
hybrid 'Grasslands Spectra' syn G20	8(2) 6	9(4) 30	10(4) 62			10(1) 51 11(4) 56
sativus 'Cadiz' syn ZAF5	9(1) 7	10(2) 34				
'Grasslands Koha'	1(4) 23	1(4) 16	2(4) 5		10(4) 65	

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Oryza						
sativa						
'YRK4'	12(1) 13					
Osmanthus						
delavayi						
'Heaven Sent'	10(3) 10	12(3) 28				
'Pearly Gates'	10(3) 10	12(3) 29				
Osteospermum						
ecklonis						
'Sunny Alex' syn Alex	12(4) 12					
'Sunny Caroline' syn Caroline	12(4) 12					
'Gustaf' syn Sunny Gustaf	9(2) 6	9(4) 20	10(3) 53	9(3) 73 10(3) 56		10(4) 65
'Ivory Queen'	10(4) 13				11(4) 55	
'Kwazulu'	9(2) 6	9(4) 23	10(3) 53	9(3) 73 11(1) 65	10(4) 65	
'Lusaka' syn Breeder's Ref. 9304	10(1) 9	10(3) 30	11(2) 53			
'Sunny Lady'	9(2) 6	9(4) 20	10(3) 53	9(3) 73		10(4) 65
'Sunny Silvia' syn Silvia	12(4) 12					
'Sunny Sonja'	12(4) 12					
'Swazi'	9(2) 6	9(4) 21	10(3) 53	9(3) 73 11(1) 65		10(4) 65
'Volta' (1st application)	9(2) 6			9(3) 73	9(4) 57	10(4) 65
Volta (2nd application)	9(4) 8	9(4) 21	10(3) 53	11(1) 65		10(4) 65
'Zimba'	9(2) 6	9(4) 22	10(3) 53	9(3) 73		10(4) 65
Ozothamnus						
diosmifolius						
'Cook's Birthday Girl'	11(4) 12				12(3) 57	
'Cook's Snow White'	6(1) 29	6(4) 43	7(4) 40			
'Cook's Tall Pink'	6(1) 29	6(4) 45	7(4) 40			
'Redlands Sandra' syn Selection 44.7	7(4) 6	8(4) 46	10(2) 58			
Pandorea						
jasminoides						
'Southern Belle'	8(2) 3	9(2) 34	10(1) 48			
Panicum						
laxum						
'Shadegro'	7(3) 6	7(3) 43	8(2) 31			
maximum						
'Natsukaze'	2(2) 30	2(2) 20	5(1) 5			
'Natsuyutaka'	4(2) 23	6(2) 8	7(3) 48			6(4) 54
Paspalum						
atratum						
'Suerte' syn Hi-Gane	9(3) 11					
distichum						
'Flexi-Green'	10(2) 14					
notatum						
'Riba'	7(3) 8	8(2) 8	9(1) 35			
nicorae						
'Blue Eve'	12(4) 10					

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Paulownia						
fortunei						
'EFF NO.1'	12(1) 12					
'Octagenia'	10(3) 10				11(3) 54	
Pelargonium						
peltatum						
'Dragonfly'					11(4) 56	
'Evka'	10(1) 9	11(1) 19	11(4) 51			
'Pendresd' syn Ville De Dresden	10(1) 9	11(1) 19	11(4) 51			10(3) 57
'Pentom' syn Tomboy2	10(4) 12					
'Penvel' syn Velvet2	10(4) 12					
tricolor						
'PEL001'	12(4) 12					
xhortorum						
'BFP-838 Dark Red' syn Designer Dark Red	11(1) 9	12(4) 94		12(4) 102		
'BFP-788 Bright Scarlet' syn Designer Bright Scarlet	11(1) 9	12(4) 92		12(4) 102		
'BFP-721 Bright Lilac' syn Designer Bright Lilac	11(1) 9	12(4) 91		12(4) 102		
'Designer Bright Lilac'†				12(4) 102		
'Designer Bright Scarlet'†				12(4) 102		
'Designer Dark Red'†				12(4) 102		
'Pink Heart' syn Showcase Pink Heart	11(1) 9	12(4) 95		12(4) 102		
'Showcase Salmon'	11(1) 9	12(4) 96				
'Showcase Pink Heart'†				12(4) 102		
'Starburst Red'	11(1) 9	12(4) 97				
zonale						
'Bergpalais'	10(1) 11	11(1) 56	11(4) 54			
'Glacis'	10(1) 11	11(1) 58	11(4) 54			
'Jana'	10(1) 11	11(1) 58	11(4) 54			
'Lovesong'	10(1) 11				11(1) 65	
'Orapin'	10(1) 11	11(1) 60	11(4) 54			
'Pendaco' syn Signal	10(1) 11	11(1) 60	11(4) 54			
'Penosa' syn Osna 2	10(1) 11				11(1) 65	
'Pensid' syn Sidonia	10(1) 11	11(1) 61	11(4) 54			
'Sassa'	10(1) 11	11(1) 61	11(4) 54			
'Sassy Dark Red'	10(1) 11	11(1) 61	11(4) 54			
Pennisetum						
glaucum						
'Siromill'	8(2) 4	8(3) 22	9(2) 61			
Pentas						
lanceolata						
'Blushing Pearl'	12(1) 12					
Persea						
americana						
'Esther'	2(4) 39				5(1) 26	
'Gwen'	2(4) 39	9(4) 14	10(3) 52			
'H77'	11(2) 12			12(2) 70		
'Hebron Emerald' syn Hebron Amor†				12(2) 70		
'Llanos Hass'	10(3) 9	12(4) 22				
'Whitsell'	2(4) 39				5(1) 26	

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Petunia						
axillaris						
'Aurora' syn						
Clone 131085	6(2) 32				9(1) 37	
'Bonnie Belle'	6(1) 30				9(1) 37	
'Cimbrian Glow'	6(1) 30				9(1) 37	
Cobbitty Rose'	6(1) 30				9(1) 37	
'Corsican Love'	6(1) 29				9(1) 37	
'Crimean Flame'	6(1) 30				9(1) 37	
'Eureka' syn						
Clone 121095	6(2) 32				9(1) 37	
'Fire Flash'	6(1) 30				9(1) 37	
'Firewalker'	6(1) 30				9(1) 37	
'Galactic Flame'	6(1) 30				9(1) 37	
'Kilkenny Bells'syn						
Clone 151053	6(2) 32	8(4) 14	9(3) 71		10(4) 65	9(3) 74
'Liberty Bell'	6(1) 30				9(1) 37	
'Lollipop' syn						
Clone 151089	6(2) 32				9(1) 37	
'Maralinga'	6(1) 30				9(1) 37	
'Merriman'	6(1) 30				9(1) 37	
'Midnight Sun'	6(1) 30				9(1) 37	
'Mixtecan Fireworks'	6(1) 30				9(1) 37	
'Montezuma Sunset'	6(1) 30	7(1) 16	8(1) 38		10(1) 50	
'Musicmaker' syn						
Clone 151021	6(2) 32				9(1) 37	
'Palmyra'	6(1) 30				9(1) 37	
'Palomar Rose'	8(2) 4	8(4) 24	9(3) 71		10(3) 56	
'Pampas Fire'	6(1) 29	7(1) 15	8(1) 38		10(1) 50	
'Pink Flirt'	6(1) 30				9(1) 37	
'Pink Panther'	6(1) 29	7(1) 16	8(1) 38		9(1) 37	
'Pink Victory'	6(4) 9	7(1) 17	8(1) 38		10(1) 50	
'Purple Flip'	6(1) 30				9(1) 37	
'Purple Frills'	6(1) 30				9(1) 37	
'Purple Starlight'	6(1) 30				9(1) 37	
'Red Cavalier' syn						
Clone 131031	6(2) 32				9(1) 37	
'Ruby Jewel' syn						
Clone 151076	6(2) 32				9(1) 37	
'Scarlet Dixie'	6(1) 29				9(1) 37	
'Sierra Snow'	6(1) 29				9(1) 37	
'Southern Desire'	6(1) 30				9(1) 37	
'Star Rider'	6(1) 30				9(1) 37	
'Starfire' syn						
Clone 151043	6(2) 32				9(1) 37	
'Sun Angelface'	7(1) 8	8(4) 26	9(3) 72		10(4) 65	
'Sun Charmer'	7(1) 8	8(4) 24	9(3) 72		10(4) 65	
'Sun Dawn'	8(2) 4	8(4) 21	9(4) 56		10(4) 65	
'Sun Eclipse'	7(1) 8	8(4) 26	9(3) 72		10(4) 65	
'Sun Mogul'	8(2) 4	8(4) 12	9(3) 72		10(4) 65	
'Sun Silverliner'	8(2) 4	8(4) 19	9(4) 56		10(4) 65	
'Sunangel'	7(1) 8				9(1) 37	
'Sunbelkupi' syn						
Trailing Pink	12(2) 13	12(2) 43				
'Sunbelkubu' syn						
Trailing Blue	12(2) 13	12(2) 41				
'Sunbelkuho' syn						
Trailing White	12(2) 13	12(2) 42				
'Sunbelchipi' syn						
Cherry Pink	12(2) 13	12(2) 41				
'Sunbride'	7(1) 8	8(4) 28	9(3) 72		10(4) 65	
'Suncocktail'	7(1) 8	8(4) 24	9(3) 72		10(4) 65	
'Suncool'	7(1) 8	8(4) 24	9(3) 72		10(4) 65	
'Sunfire' syn						
Clone 131070	6(2) 32				9(1) 37	

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'Sunfrills'	7(1) 8				9(1) 37	
'Sungazer'	7(1) 8	8(4) 17	9(3) 72		10(4) 65	
'Sunlace'	7(1) 8	8(4) 16	9(3) 72		11(3) 54	
'Sunlark'	7(2) 7				9(1) 37	
'Sunmarble'	7(1) 8				9(1) 37	
'Sunprom'	7(1) 8	8(4) 16	9(3) 72		10(4) 65	
'Sunseeker' syn Clone 151050	6(2) 32				9(1) 37	
'Sunstormer'	7(1) 8	8(4) 10	9(3) 72		11(3) 54	
'Suntruce'	7(1) 8				9(1) 37	
'Sunwave'	8(2) 4	8(4) 23	9(3) 72		10(3) 56	
'Sweet Victory'	6(1) 29	7(1) 16	8(1) 38		10(1) 50	
'Velvet Columbine' syn Clone 121010	6(2) 32	8(4) 21	9(3) 72		10(4) 65	9(3) 74
'Wedding Bells'	6(1) 30				9(1) 37	
'White Sierra'	6(1) 30				9(1) 37	
hybrid						
'Abundance'	6(1) 30	8(4) 16	9(3) 72		10(4) 65	9(3) 74
'Adventurer'	9(4) 10	11(4) 38	12(3) 56			
'Alabaster'†				7(1) 33		
'Batavian Night'	6(1) 30	8(4) 21	9(3) 71		10(4) 65	9(3) 74
'Blue Opal'	6(1) 30	8(4) 26	9(3) 71		10(4) 65	9(3) 74
'Blue Wren'	6(1) 29	8(4) 26	9(3) 71		11(3) 54	9(3) 74
'Cobink'	12(4) 12					
'Colour Flip'	6(1) 30	8(4) 28	9(3) 71		10(4) 65	9(3) 74
'Desert Light' syn Number 1	8(2) 4	9(2) 36	10(1) 48		11(1) 66	
'Dusky Light' syn Number 5	8(2) 4	9(2) 36	10(1) 48		11(1) 66	
'Frilled Dragon'	8(2) 4	8(4) 19	9(3) 72		10(4) 65	9(3) 74
'Hotlips'	6(1) 30	8(4) 9	9(3) 72		10(4) 65	9(3) 74
'Hush White' syn Hush Light	8(2) 5	9(2) 36	10(1) 48		11(1) 66	9(2) 63
'Kristy Rader'	8(2) 4	8(4) 10	9(3) 72		10(4) 65	9(3) 74
'Magenta Light' syn Number 11	8(2) 5	9(2) 37	10(1) 48		11(1)66	
'Mariposa Red'	6(1) 30	8(4) 9	9(3) 71		10(4) 65	9(3) 74
'Mauve Light' syn Number 13	8(2) 5	9(2) 37	10(1) 48		11(1) 66	
'Orion' syn Clone 131062	6(2) 32	8(4) 14	9(3) 72		10(4) 65	9(3) 74
'Pink Confusion' syn Clone 121076	6(2) 32	8(4) 19	9(3) 72		10(4) 65	9(3) 74
'Pink Light' syn 205/7	8(2) 5	9(2) 38	10(1) 48		11(1) 66	
'Pink Mischief'	6(1) 29	8(4) 17	9(3) 71		10(4) 65	9(3) 74
'Pink Organdy'	6(1) 30	8(4) 9	9(3) 71		10(4) 65	9(3) 74
'Purple Sunspot'	6(1) 30	8(4) 10	9(3) 71			9(3) 74
'Purple Victory'	8(2) 4	8(4) 23	9(3) 72		10(3) 56	9(3) 74
'Pygmy Rose'	6(1) 30	8(4) 14	9(3) 71		10(4) 65	9(3) 74
'Rainbow Warrior'	6(1) 30	8(4) 23	9(3) 71		10(4) 65	9(3) 74
'Ravenna Purple'	6(1) 30	8(4) 14	9(3) 72		10(4) 65	9(3) 74
'Revolution Bluevein' syn Blue Highlights	7(3) 8	10(3) 31	11(2) 54	8(3) 53 11(2) 56		
'Revolution Brilliantpink'	6(2) 34	8(4) 30	9(3) 72	11(2) 56		
'Revolution Brilliantpink Mini'	6(2) 34	8(4) 32	9(3) 72	11(2) 56	10(4) 65	
'Revolution Pastel Pink No. 2'	9(4) 9	10(3) 32	11(2) 54			
'Revolution Pastelpink'	6(2) 34				7(2) 29	
'Revolution Pinkmini' syn Blushing Pink	7(3) 8	10(3) 32	11(2) 54	8(3) 53 11(2) 56		
'Revolution Pinkvein' syn Pink Highlights	7(3) 8	10(3) 32	11(2) 54	8(3) 53 11(2) 56		

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'Revolution Purplepink'	6(2) 34	8(4) 30	9(3) 72		10(4) 65	
'Revolution Violet No. 2'	9(4) 9	10(3) 33	11(2) 54			
'Revolution White'	6(2) 34	8(4) 34	9(3) 72	11(2) 56		
'Sanberubu' syn Blue Chimes	8(4) 7	10(3) 35	11(2) 54	10(3) 56		
'Sanberupi' syn Pink Chimes	8(4) 7	10(3) 35	11(2) 54	10(3) 56		
'Silk Road'	9(4) 10	11(4) 39	12(3) 56			
'Snowpet'†	6(1) 30					
'St. Elmo's Fire'	6(1) 29	8(4) 17	9(3) 72		10(4) 65	9(3) 74
'Sun Avalanche'	8(2) 4	8(4) 30	9(3) 72		10(3) 56	9(3) 74
'Sun Frost'	6(1) 30	8(4) 28	9(3) 72		10(4) 65	9(3) 74
'Sun Gleam'	8(2) 4	8(4) 9	9(3) 73		10(3) 56	9(3) 74
'Sun Inferno'	8(2) 4	8(4) 12	9(3) 73		11(3) 54	9(3) 74
'Sun Snow'	6(1) 30	8(4) 28	9(3) 72	7(1) 33	11(3) 54	9(3) 74
'Sunbelchipi' syn Cherry Pink	12(2) 13					
'Sunbelkubu' syn Trailing Blue	12(2) 13					
'Sunbelkuho' syn Trailing White	12(2) 13					
'Sunbelkupi' syn Trailing Pink	12(2) 13					
'Sunkiss'	7(1) 8	8(4) 17	9(3) 73		10(4) 65	9(3) 74
'Sunsolos'				10(3) 56		
'Sunsolos'†				8(3) 53		
'Sunspoiler'	8(2) 4	8(4) 12	9(3) 73		10(3) 56	9(3) 74
'Sunstriker'	8(2) 4	8(4) 12	9(3) 73		10(4) 65	9(3) 74
'Suntory SP-B'†				10(3) 56		
'Suntory SP-R'†				10(3) 56		
'Suntosol'				10(3) 56		
'Suntosol'†				8(3) 53		
'Suntovan'				10(3) 56		
'Suntovan'†				8(3) 53		
'Sunvane'	8(2) 4	8(4) 24	9(3) 73			9(3) 74
'Thai Silk'	6(1) 30	8(4) 10	9(3) 72		10(4) 65	9(3) 74
'Traveller'	9(4) 10	11(4) 40	12(3) 56			
'White Lace'	8(2) 4	8(4) 19	9(3) 73		10(3) 56	9(3) 74
integrifolia						
'Tiger Light'	8(2) 5	9(2) 38	10(1) 48		11(1) 66	8(3) 53
Phalaris						
aquatica						
'Atlas PG' syn Perla Retainer	10(4) 13	11(1) 26	11(4) 52			
'Australian II'	10(4) 13	11(1) 26	11(4) 52			
'Holdfast'	3(1) 37	3(1) 13	3(4) 4			
'Landmaster' syn BP 92	8(2) 5	8(3) 22	9(3) 73	9(3) 73		
Phaseolus						
vulgaris						
'Barracuda'	7(2) 6				8(2) 31	
'Bronco'	1(4) 23	2(2) 13	3(1) 5	2(1) 15		2(3) 23
'Celtic'	7(2) 6				8(2) 31	
'Gresham'	2(2) 30	2(2) 15	3(1) 4		5(3) 6	
'Jade'	5(1) 25	6(4) 14	7(4) 41	11(4) 55		5(2) 36
'Nelson' syn Simba	8(1) 4	10(3) 21	11(2) 53			10(4) 66
'Phoenix'	6(2) 31	6(4) 48	7(4) 41	11(4) 55		
'Rainbird' syn CH93-67D	5(4) 34	6(4) 30	8(1) 38			
'Rosario'	6(4) 8				8(1) 39	
'Sarande' syn RS-1237	6(4) 8				8(1) 39	
'Sirius' syn CH126-31D	5(4) 34	6(4) 29	8(1) 38			

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'Spearfelt' syn CH187-2D	6(2) 31	6(4) 47	8(4) 49			
'XPB 247' syn Matador	6(1) 31	6(3) 37	7(4) 40	6(2) 34		
Philodendron						
selloum						
'Little Piccolo'	10(1) 9				11(1) 66	
Philotheca						
myoporoides						
'Lime Delight'	12(3) 11	12(4) 34				
Photinia						
hybrid						
'Paradise Burgundy'†				10(3) 56		
'Superhedge'	9(1) 6	10(2) 44	11(1) 64	10(3) 56		
x *fraseri*						
'Allyn Sprite'	7(4) 7	8(4) 44	9(3) 73			
Picea						
pungens						
'Raymur Springs'	9(1) 5				10(1) 50	
Pimelea						
ferruginea						
'Pink Bouquet'	4(3) 26	4(3) 21	5(3) 5			
Pinus						
mugo						
'Amber Gold'	6(4) 5	6(4) 49	7(4) 40			
Pisum						
sativum						
'Bluey'	4(1) 25	4(1) 22	5(4) 5		10(4) 65	
'Bonzer'	4(3) 26	4(3) 20	7(3) 47		11(1) 66	
'Cooke'	12(4) 11	12(4) 35				
'Dinkum'	1(4) 23	1(4) 19	2(3) 4	2(1) 15	8(3) 53	
'Excell'	11(4) 11	12(1) 28	12(4) 99			12(4) 103
'Flinders'	4(4) 23				6(3) 46	5(2) 36
'Frolic'	2(2) 31				3(4) 37	
'Helena'	12(4) 11	12(4) 36				
'Jupiter'	5(3) 18	6(1) 25	6(4) 53			
'King' syn DSIR-173-1	10(2) 13	11(1) 17	11(4) 52			11(2) 56
'Laura' syn A163-5	8(1) 4				10(4) 64	
'Magnet' syn DSIR-128-5	10(2) 13	11(1) 18	11(4) 52			11(2) 56
'Mukta'	12(1) 12	12(4) 37		12(2) 71		
'Parafield'	12(1) 11	12(4) 38		12(2) 71		
'Paravic'	11(4) 11	12(1) 29	12(4) 99			12(4) 103
'Purple Delight'	8(1) 3				10(1) 50	
'Santi'	12(1) 12	12(4) 39		12(2) 71		
'Snowpeak'	12(3) 10					
'Snowy'	11(4) 11					
'Solara'	2(2) 30					
'Soupa'	12(1) 12	12(4) 40		12(2) 71		
'Trounce'	8(4) 6	10(3) 23				
Pittosporum						
bicolour x undulatum						
'Cut Above'	10(4) 13					11(2) 56
ralphii						
'Cathy'	12(2) 13					

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tenuifolium						
'PTGP1'	12(2) 14					
'PTSS1'	12(2) 14					
'PTSS2'	12(2) 14					
'Screenmaster'	10(4) 13	11(3) 37				
Polygala						
myrtifolia var *grandiflora*						
'White Flamingo'	12(4) 13					
Plantago						
lanceolata						
'Ceres Tonic' syn PG30	9(1) 6	9(2) 39	10(2) 57	10(2) 59		
'Grasslands Lancelot'	9(1) 7	9(2) 39	10(1) 48			
Platysace						
'Valentine Lace'	10(2) 13	11(2) 40	12(1) 71			
Plectranthus						
ciliatus						
'Easy Gold'	8(4) 8	9(4) 50	10(3) 55			
Plumbago						
auriculata						
'Monott' syn Royal Cape	5(3) 19	7(2) 14	8(1) 39			
Poa						
annua						
'MN 117'	11(4) 10					
'MN 184'	11(4) 10					
'MN 234'	11(4) 10					
ensioformis						
'Corama'	10(2) 13				11(3) 54	
labillardieri						
'Eskdale'	10(3) 12					
Potentilla						
fruticosa						
'Marrob' syn Marian Red Robin	8(1) 5			9(3) 73		
Protea						
amplexicaulis x						
'Joey'	4(1) 25	6(4) 9	7(4) 40			
grandicep x longiflora						
'Grandicolor'	12(1) 13					
hybrid						
'Pink Cupid'	9(3) 11	11(1) 33	11(4) 53			
'Pink Pride'	9(3) 11	11(1) 33	11(4) 53			
'White Mist'	9(3) 11	11(1) 34	11(4) 53			
'White Night'	9(3) 11	11(1) 35	11(4) 53			
magnifica x compacta						
'Pink Lady'†				8(4) 51		
'Pink Princess'	8(1) 5	9(3) 47	10(2) 57	8(4) 51		
magnifica x longifolia						
'Possum Magic'	4(1) 25	6(1) 7	7(1) 32			
pudens x longifolia						
'Pixie'	6(4) 7	9(1) 22	9(4) 56			
Prunus						
armeniaca						
'Cluthagold' syn Clutha 13/43	8(1) 3	10(4) 19	11(3) 51			
'Earlicot'	9(1) 4	11(3) 14	12(2) 68			
'Huon Pride'	8(3) 4					

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'Kinross'	8(2) 2				11(2) 56	
'Poppicot'	12(2) 10					
'Rivergem'	11(2) 12					
'Ruby'	8(2) 2	10(2) 21	11(1) 62			
avium						
'Brooks' syn DEC-28	6(4) 8	7(4) 25	8(3) 52			
'Celeste' syn 13s-24-28	7(2) 5					
'Empress'	4(4) 23	5(2) 8	6(1) 7			
'Gaudion'	2(3) 23				7(3) 49	
'Lapins'	4(1) 25				5(1) 7	
'Sir Don'	11(2) 15					
'Sir Tom'	11(2) 15					
'Summerland' syn 13s-18-15	7(2) 5				9(3) 74	
'Sumtare' syn Sweetheart		11(4) 20	12(3) 56	11(4) 55		
'Sweetheart' syn 13s-22-8†	7(1) 9					
'Sylvia' syn 4c-17-31	7(2) 5				9(3) 74	
canescens						
'GM 79' syn Camil	6(2) 32	10(2) 28	11(1) 63			
cerasifera var *nigra*						
'Rosalind' syn Beauty'	11(1) 8					
cerasus x canescens						
'Gisela 5' syn GI 148-2	9(3) 9					
'Gisela 6' syn GI 148/1	11(3) 11					
dawyckensis						
'GM61/1' syn Damil	6(2) 32	10(2) 27	11(1) 63			
domestica						
'Ausibelle' syn 110GD11	7(3) 8			8(4) 51		
'Corio Queen'	11(2) 14					12(1) 74
domestica x armeniaca						
'Red Velvet'	3(3) 26				7(3) 49	
hybrid						
'Atlas' syn 60EB160	7(4) 6	12(3) 43				
'Blue Gusto'	12(3) 12					
'Dapple Dandy'	12(3) 11					
'Flavor Queen' syn 29EB179	7(4) 5				11(1) 66	
'Flavor Heart'	12(2) 14					
'Flavorich'	12(2) 14					
'Flavor Supreme'						
'Royal Velvet'	5(3) 18				7(3) 49	
syn 28EB12	7(4) 5 8(1) 5					
'Viking'	12(4) 12					
incisa x serrulata						
'GM9' syn Inmil	6(2) 32	10(2) 27	11(1) 63			
persica						
'Autumn Flame'					12(4) 102	
'Autumn Snow' syn Yukon King	12(3) 11					
'7GC153'†				12(2) 70		
'Avimag' syn 41.4.21	8(4) 6					
'Earlirich'	8(3) 6	10(4) 35	11(3) 52			
'Eva's Pride'	9(4) 9				11(4) 55	
'French Lady' syn C88.83PB	9(3) 11	10(1) 28	10(4) 62		12(1) 73	
'Julie' syn Tendresse	8(4) 7	10(1) 28	10(4) 62		12(1) 73	
'June Crest' syn 10e370	2(3) 23	7(2) 9	9(2) 61			
'Kialla'	8(1) 5	9(1) 22	9(4) 56			
'King Alvise'	8(4) 7	11(2) 38 11(3) 32	12(2) 69			
'Melodie'	2(4) 39	7(2) 12	9(1) 36		11(2) 56	9(2) 63

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'Merit'	8(4) 7	9(3) 39	10(2) 57			
'Pix-Zee'	7(3) 8	10(4) 36	11(3) 52			
'Red Coast'	9(1) 6					
'Red Moon'	9(1) 6					
'Red Valley'	9(1) 6					
'Rich Lady' syn 8GC128	5(3) 20	7(4) 10	9(1) 36			
'Rich May' syn 65EC75	7(4) 5	9(2) 35	10(1) 48			
'Scarlet Snow'	12(2) 13					
'September Snow'	9(4) 9	11(3) 33	12(2) 69			
'Snowbrite'	12(2) 13					
'Snow Diamond'	4(2) 23				7(3) 49	
'Snow Fire'	12(3) 11					
'Snow Giant'	10(1) 10	11(3) 32		12(2) 70		
'Snow King'	9(4) 9	11(3) 34	12(2) 69			
'Sophia's Blush'					11(3) 54	
'Spring Snow'	12(3) 11					
'Summer Sweet'	9(4) 9	11(3) 34	12(2) 69			
'Summer Zee'	9(4) 9				11(4) 55	
'Sweet Dream'	12(4) 12					
'Sweet Scarlet'	9(4) 9	12(2) 37				
'Sweet September'	12(3) 11					
'Symphonie'	2(4) 39	7(2) 11	9(1) 36		12(1) 73	
'Tasty Zee' syn 32EA300	2(3) 23	7(2) 9	9(2) 61			
'Tribute' syn 2083.PJ	9(3) 11	10(3) 30	11(2) 54			
'Tucker's' syn Tucker's Autumn Blush	9(2) 7					
'Vista' syn Vistarich	9(4) 9	11(3) 35	12(2) 69	10(4) 64		
'Zee Lady'	2(3) 23	7(2) 10	9(2) 61			
persica var *nucipersica*						
'99LB329'†				12(2) 70		
'April Glo syn 39GA188	7(3) 8	9(2) 32	10(1) 48		12(1) 73	
'Arctic Blaze'	12(2) 12					
'Arctic Jay'	10(1) 12		12(2) 69			
'Arctic Pride'	12(2) 12					
'Arctic Queen'	7(3) 8	9(3) 36	10(2) 57			
'Arctic Rose' syn 161GD123	5(3) 20	7(4) 9	8(4) 50			
'Arctic Show' syn Arctic Snow	7(3) 8	9(3) 37	10(2) 57	10(2) 59		
'Arctic Star'	10(1) 10	11(3) 28		12(2) 70		
'Arctic Sweet'	9(4) 9		12(2) 69			
'Autumn Royal' syn 33GD109					9(3) 74	
'Bright Pearl' syn Bright Ice	12(2) 12					
'Diamond Bright' syn Crimson Bright	12(2) 12					
'Earliglo' syn 62RA286	8(2) 4	9(2) 32	10(1) 48			
'Fire Pearl' syn Fire Ice	12(2) 12					
'Grand Pearl' syn Grand Ice	12(2) 12					
'Harmonie'	2(4) 39				3(4) 37	
'Honey Blaze'	12(2) 12					
'Honey Kist'	12(2) 12					
'June Pearl' syn June Ice	12(2) 12					
'Liz's Late' syn 18K374	8(3) 6	10(1) 23	10(4) 62		12(1) 73	
'Necta Zee'	7(3) 8	10(4) 33	11(3) 52			
'Queen Silla'	9(1) 6					
'Royal Glo' syn 78EE322	8(2) 4	9(2) 33	10(1) 48			
'Ruby Pearl' syn Ruby Ice	12(2) 12					
'Spring Sweet' syn Spring Gold†				12(4)		
'Spring Sweet'	12(2) 12			12(4) 102		

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'Springfield Red'	12(1) 12					
'Ruby Diamond'	8(3) 6	10(2) 40	11(1) 64			
'Venus'	7(4) 6	10(1) 24	11(2) 53			
'Zee Glo' syn 32R331	6(3) 45	10(1) 25	10(4) 62			
salicina						
'Autumn Sunrise' syn 67GC75	9(1) 5				11(1) 66	
'Awaso'	12(1) 12					
'Betty Anne'	9(4) 8	11(3) 38	12(2) 68			
'Earliqueen'	8(4) 6	10(4) 38	11(3) 52			
'Hiromi Red'	12(3) 10					
'Pizazz' syn 64GC173	8(2) 3				9(2) 62	
'Primetime'	7(1) 7					
'Sapphire'	11(4) 11					
'Showtime'	7(1) 7					
'Souvenir'	11(4) 11					
'Suplumtwenty'	12(1) 12					
salicina x persica						
'Citation' syn 4G816†				12(3) 57		
'Zaipime' syn 4G816	6(3) 45	12(3) 44		12(3) 57		
subhirtella						
'Winter Sun'	3(4) 38	3(4) 31			5(1) 7	4(3) 26
yedoensis						
'Afterglow'	4(1) 25				4(3) 26	
Pseuderanthemum						
repandum						
'Cabaret'	8(4) 7	9(3) 47	10(2) 57			
Ptilotus						
exaltatus						
'Pink Feather'	10(4) 15				12(1) 73	
Pyrus						
calleryana						
'Claremont'	4(2) 23				6(3) 46	
communis						
'BM 2000'	11(3) 11					
'Corinella' (1st application)	8(3) 6				10(3) 57	
'Corinella' (2nd application)	11(4) 10	12(4) 48				
'Emerald Prince'	10(3) 10					
'Pyvert'	10(2) 13					
'Red Princess'	8(1) 5	11(2) 39	12(1) 71			
'Rosemarie Beauty'	9(4) 9					
'Sophia's Gold'	8(3) 6					
'Sophia's Pride'	6(2) 26	6(2) 26	7(2) 28	8(4) 51		
'Taylors Gold'	9(2) 7					
'Tichbon'	8(2) 4	9(4) 34	10(3) 54	11(2) 56		
'Wimmer's Beauty'	9(1) 6					
hybrid					11(2) 56	
'Daisui Li'	2(4) 39				9(4) 57	
'Shin Li'	2(4) 39				9(4) 57	
pyrifolia						
'Gold Nijisseiki'	10(2) 12	12(1) 31				
Radermachera						
sinica						
'Kaprima' syn Crystal Doll	3(4) 38	4(4) 7	5(4) 5	4(4) 23 9(3) 73		
'Limelight'†				4(4) 23		
Rhipsalis						
hybrid						
'Matilda'	6(4) 9	11(1) 36	11(4) 54			

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Rhododendron						
azaleoides hybrid						
'Fiesta' syn Paradise Harlequin	4(4) 23	4(4) 16	6(3) 6	5(2) 36		5(1) 26
'Harlequin'†				5(2) 36		
hybrid						
'Australian Cameo'	6(3) 45	8(2) 28	9(1) 36			8(4) 52
'Australian Celebration'	12(1) 10					12(3) 57
'Australian Rainbow'	6(3) 44	8(2) 28	9(1) 36		11(2) 56	8(4) 52
'Australian Sunset'	6(3) 45	8(2) 28	9(1) 36			
'Coconut Ice'	3(3) 26	3(3) 20	4(2) 4			
'Coffee Caramel'	12(1) 10					12(3) 57
'Laura Joy'	11(2) 15	11(4) 13	12(3) 55			
'Maria's Choice'	6(3) 44	8(2) 30	9(1) 36			8(4) 52
'Paradise Christine'	8(2) 3	9(2) 12	10(1) 47			8(4) 52 9(4) 57 10(1) 51
'Paradise Louise'	8(2) 3	9(2) 13	10(1) 47			8(4) 52 10(1) 51
'Princess Barbara' syn 77-8-C	7(3) 7	7(4) 16	8(3) 51			
'Princess Charlotte'syn 77-3-4	7(3) 7					
'Princess Pat' syn 70-27-1	7(3) 7	7(4) 36	8(3) 51			
'Princess Sharon' syn 68-13-3	7(3) 7	7(4) 35	8(3) 51			
'Tilly Aston'	12(1) 10					12(3) 57
simsii						
'Aquarell'	9(2) 5	10(3) 14	11(2) 52			
'Beenak'	9(2) 5	10(3) 15	11(2) 52			
'Cencerre'	9(2) 5				10(2) 60	
'Colleen Fahey'	7(2) 6	7(4) 30	8(4) 49			
'Dyana'†				11(2) 55		
'Evonne Goolagong' syn White Bouquet Variegated	7(3) 7	7(4) 34	8(3) 51			
'Heide Hanisch'	8(3) 5	8(4) 37	9(3) 70			
'Kenny Lane Lou Lou'	9(2) 5	10(3) 15	12(1) 69	11(2) 55		
'Lumeha'	9(2) 5	11(3) 15				
'Melodie'	8(3) 5	8(4) 37	9(3) 71			
'Nanu'	8(3) 5				8(4) 51	
'Noemi' syn Kosmos-Bunt	8(3) 5	8(4) 38	9(3) 71	12(3) 57		
'Ostalett'	7(2) 6	7(4) 30	8(3) 51			
'Ostali'	7(2) 6	7(4) 31	8(3) 51			
'Otto'	7(2) 6	7(4) 36	8(3) 51			
'Paradiso'	8(3) 5	8(4) 38	9(3) 71			
'Potpurri'	9(2) 5	10(3) 16	11(2) 52			
'Theo'	7(2) 6	7(4) 31	8(3) 51			
'Venus' syn Kosmos-Bunt†				12(3) 57		
x azaleoides						
'Sydney's Sesqui'	5(1) 24	5(4) 15	6(3) 6		11(3) 54	
Robinia						
hispida x pseudoacacia						
'Purple Crown'	3(3) 26				9(1) 37	
pseudoacacia						
'Lace Lady'	8(2) 3	9(3) 18	10(2) 55			
hybrid						
'Unigold'	11(4) 10	11(4) 41	12(3) 55			
Rosa						
banksiae						
'Powder Puff'	11(3) 10					

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chinensis						
'Savabear' syn Teddy Bear	7(2) 5	9(4) 38	10(4) 63			
grandiflora						
'Michelle Joy' syn Aroshrel	4(1) 25	4(3) 10	5(3) 6		10(3) 56	
hybrid						
'Adelfi' syn Selnitro	4(4) 23				6(1) 31	
'Aotearoa' syn Macgenev	5(1) 25	5(3) 7	6(2) 5			5(2) 36
'Arobipy' syn Crystalline	3(2) 34	3(2) 17	4(1) 4			5(1) 26
'Arotrusim' syn 'Bloomin' Easy	3(2) 34	3(2) 18	4(1) 4		11(1) 66	
'Ausbrid' syn Mayor Of Casterbridge	12(2) 14					
'Ausjo' syn Jude The Obscure	12(1) 13					
'Ausmum' syn Pat Austin	12(2) 14					
'Ausbloom' syn The Dark Lady	8(3) 7	9(3) 48	10(2) 58	11(1) 65		
'Ausblush' syn Heritage	3(2) 34	6(3) 8	7(2) 29	11(1) 65		
'Ausbord' syn Gertrude Jekyll	4(2) 23	8(3) 24	9(2) 61	11(1) 65		
'Ausbreak' syn Jayne Austin	7(1) 9	9(3) 49	10(2) 58	11(1) 65		
'Auscent' syn John Clare	11(2) 15	12(2) 44				
'Auscomp' syn Happy Child						11(2) 57
'Auscot' syn Abraham Darby	3(2) 34	6(3) 6	7(2) 29	11(1) 65		
'Auscrim' syn L D Braithwaite	6(2) 33	7(3) 24	8(3) 52	11(1) 65		
'Ausfin' syn Financial Times Centenary	6(2) 33	7(3) 24	8(3) 52	11(1) 65		
'Ausgold' syn Golden Celebration	9(2) 8	10(2) 45	11(1) 64	11(1) 65		
'Ausjo' syn Jude de Obscure	12(1) 13	12(2) 44				
'Ausland' syn Scepter d' Isle	12(1) 13	12(2) 45				
'Ausled' syn A Shropshire Lad	12(2) 14					
'Auslevel' syn Glamis Castle	9(2) 8	10(2) 46	11(1) 64	11(1) 65		
'Ausmak' syn Eglantyne	10(2) 13	10(2) 46	11(1) 64	11(1) 65		
'Ausmit' syn St Cecilia	5(3) 17	7(3) 12	8(3) 52	11(1) 65		
'Ausmol' syn Molineux	11(2) 15	11(2) 41	12(1) 71			
'Ausmoon' syn Pegasus	12(1) 13	12(2) 45				
'Auspale' syn Redoute	9(2) 8	10(2) 47	11(1) 64	11(1) 65		
'Ausreef' syn Sharifa Asma	7(1) 9	9(3) 49	10(2) 58	11(1) 65		
'Aussal' syn Radio Times	11(2) 15	11(2) 41	12(1) 71			
'Aussaucer' syn Evelyn	8(3) 7	10(2) 48	11(1) 64	11(1) 65		
'Ausvelvet' syn The Prince	7(1) 9	9(3) 50	10(2) 58	11(1) 65		
'Auswalker' syn The Pilgrim	8(3) 7	9(3) 51	10(2) 58	11(1) 65		
'Ausway' syn Noble Antony	12(2) 14					
'Auswhite' syn Swan	4(2) 23	6(3) 9	7(2) 29	11(1) 65		
'Auswonder' syn Ambridge	7(1) 9	9(3) 52	10(2) 58	10(2) 59 11(1) 65		
'Baby Jack'	11(3) 11	12(4) 53				
'Benfig' syn Figurine	6(3) 44	7(3) 35	8(3) 52			
'Benlavscent' syn Moon River	8(4) 7	9(3) 53	11(1) 64	10(2) 59		
'Benmable' syn Bennardella's Waltz	11(3) 11	12(4) 54				

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'Benmagic' syn Pirouette	8(4) 7	9(3) 53	10(2) 58			
'Benmech' syn Kates Delight	11(3) 11				12(4) 102	
'Benmfig' syn Benardella's Pearl	11(3) 11				12(4) 102	
'Benmjul' syn Benardella's Ruby	11(3) 12	12(4) 55				
'Benmoon'†				10(2) 59		
'Betsy Taaffe'	9(3) 11	12(1) 49	12(4) 100			
'Brigadoon' syn Jacpal	5(1) 25	5(3) 9	6(2) 5			
'Brilliant Pink Iceberg syn Probril	11(1) 9	11(2) 42	12(1) 71			
'Bruninitial' syn Brundrett Centenary	6(2) 31	7(1) 24	8(1) 39		12(4) 103	
'Carol Ann' syn Wel Car	9(3) 11				10(1) 50	
'Catherine Mcauley' syn Jacibras	6(1) 29	6(3) 34	7(3) 48			
'Ce/500'†				10(1) 50		
'Cecilia'	4(2) 23	4(2) 19	5(3) 5			
'Chameleon'	5(4) 34	8(3) 24	9(2) 61	9(4) 57		
'Chewizz' syn Warm Welcome	8(2) 5				10(4) 64	
'Class Act' syn Jacare	5(1) 25	5(3) 8	6(2) 5			
'Climbing Cardinal'	11(4) 12					
'Cocdestin'	3(2) 34	4(2) 12	5(4) 5			
'Crimson Miniwonder†				6(2) 34		
'Delicious' syn Weldel	5(2) 35	8(3) 25	9(2) 61			
'Delivour' syn Imperatrice Farah	9(3) 11			11(1) 65	10(4) 64	
'Devilk' syn Sparkling Orange	6(3) 43	8(3) 26	9(2) 61			
'Devnovia' syn Megan	6(3) 43	8(3) 35	9(2) 62			
'Devrise' syn Cerise Dawn	6(3) 43	8(3) 36	9(2) 62			
'Devtinta' syn Obsession	6(3) 43	8(3) 37	9(2) 62			
'Dicmoppet' syn Minilights	6(2) 31	7(1) 26	8(1) 39		9(1) 37	
'Dictator' syn Pure Bliss	12(2) 14					
'Dicobey' syn Tequila Sunrise	5(2) 15	5(2) 15	7(2) 28			
'Dicsingsong' syn Patio Kaleidoscope	10(3) 11	12(2) 46				
'Dicstereo'	10(3) 11	12(2) 47				
'Dollar'	4(4) 23	6(1) 8	6(4) 53		8(1) 39	8(4) 52
'Dorothea Howard'	7(4) 7					
'Fairy Fire'	6(2) 32				9(1) 37	
'Fairy Queen'	12(2) 14					
'Flower Carpet'†					5(4) 35	
'Fred Hollows Vision'	9(3) 11	10(2) 51	11(1) 64	10(2) 59		
'Frystar' syn Liverpool Remembers	7(4) 7	8(3) 39	9(2) 62			
'Frytranquil' syn Golden Moments	7(4) 7	8(3) 40	9(2) 62			
'Frytrooper' syn Daily Post	7(4) 7	8(3) 41	9(2) 62			
Fryxotic syn Warm wishes	11(1) 9					
'Golden Friendship' syn Hartellody	4(2) 23	4(2) 14	5(4) 5		12(4) 103	
'Grandalpha'	12(4) 13					

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'Hans Christian Andersen' syn Poulander	4(1) 25	4(3) 17	5(3) 6		10(3) 56	
'Hansug' syn Sugar Plum Fairy	9(3) 11					
'Happy Days' syn Macseatri	4(1) 25	4(3) 11	5(3) 5		10(3) 56	
'Harbella' syn Peacekeeper	10(2) 13					
'Hardinkum' syn Princess of Wales	11(4) 12					
'Harwoey' syn Yesteryear	7(3) 5				10(2) 60	
'Harxever' syn Joy Of Health	10(2) 13					
'Haryup'	10(3) 11					
'Helhein' syn Super Sparkle	11(4) 12					
'Helkewei' syn Super Bianca	11(3) 12					
'Helkleger' syn Super Elfin	11(4) 12					
'Helsufair' syn Super Fairy	10(1) 10	11(4) 42	12(3) 56	12(3) 57		
'Howard Florey'	11(4) 12					
'Interdust'	9(2) 8				10(3) 56	
'Interkuyl'	12(3) 12					
'Interlene'	12(1) 13					
'Interlien' syn Evelien	4(1) 25	4(1) 20			5(4) 5	
'Interlis' syn Lydia	8(2) 5	10(1) 32			10(4) 64	
'Intermoto' syn Joy	4(1) 25	4(1) 20			5(4) 5	4(3) 26
'Internes'	12(3) 12					
'Interniki' syn Nikita	4(1) 25	4(1) 21			5(4) 5	
'Interonly' syn Only Love (1st application)	4(2) 23	4(2) 18			5(4) 5	
'Interonly' syn Only Love (2nd application)	6(3) 44	7(3) 32	8(2) 31			
'Interpeach' syn Peachy	7(2) 9 7(4) 5	10(1) 32	10(4) 63		11(4) 56	
'Interprince' syn Princess	4(1) 25	4(1) 20			5(4) 5	
'Interpur' syn Purple Prince	7(1) 5				9(1) 37	
'Intersept' syn Ruby Rosamini	7(1) 9	9(2) 40	10(1) 48			
'Intersiree' syn Swing	7(1) 5				9(1) 37	
'Intertyn' syn Sentyna	7(1) 5				9(1) 37	
'Jacable' syn Fascination	7(1) 6	8(1) 30	8(4) 50			
'Jacchry' syn Breathless	7(1) 6	8(1) 30	8(4) 50			
'Jacina' syn Wild Dancer	11(3) 12					
'Jacirst' syn Artistry	11(3) 12					
'Jaccofl' syn Brass Band	9(2) 8	10(3) 36	11(2) 54			
'Jacdash' syn Rose of Wagga Wagga	7(1) 6	8(1) 31	8(4) 50			
'Jacfre' syn City of Goulburn	8(1) 5	9(1) 24	9(4) 56			
'Jachipow' syn Pretty in white	12(4) 13					
'Jachotam' syn Pretty in Candy	12(4) 13					
'Jachotse' syn Pretty in Yellow	12(4) 13					
'Jacshaq'	12(4) 13					

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'Jacient' syn Tournament of Roses	6(1) 29	6(3) 35	7(3) 47			
'Jaclaf' syn Moon Shadow	9(4) 10	11(4) 42	12(3) 56			
'Jaclin' syn Patriot	8(1) 5	9(1) 25	9(4) 56			
'Jacolber' syn Opening Night	11(3) 12					
'Jacmobli' syn Pretty in Pink	12(4) 13					
'Jacnor' syn Signature	9(2) 8	10(3) 36	11(2) 54			
'Jacpif' syn Pleasure	6(1) 29	6(3) 33	7(3) 48			
'Jacpihi' syn Grand Finale '98	11(3) 12					
'Jacsedi' syn Love Potion	8(1) 5	9(1) 25	9(4) 56			
'Jacsim' syn Sweet Inspiration	7(1) 6	8(1) 31	8(4) 50			
'Jactemp' syn Pretty in Red	12(4) 13					
'Jactop' syn Legend	7(1) 6	8(1) 31	8(4) 50			
'Jactou' syn Midas Touch	9(2) 8	10(3) 36	11(2) 54			
'Jacyef' syn Shining Hour	6(1) 29	6(3) 32	7(3) 48			
'Jaczor' syn Fame '98	11(3) 12					
'Jean Galbraith'	12(2) 14					
'Jumpin'Jack' syn Jacpat	9(2) 8	11(4) 43	12(3) 56			
'Keijourna' syn Aurelia	2(1) 14	2(3) 5	3(2) 5		9(2) 63	3(2) 35
'Keimove' syn Prelude	7(3) 8				9(3) 74	
'Keinoumi'	3(4) 38	4(3) 8	5(3) 5			
'Keitaibu'	3(3) 26	4(3) 8	5(3) 5			
'Keizoubo' syn Pareo	5(3) 19	5(4) 21	6(3) 6			
'Kimba' syn Selcuper	5(1) 24					
'Kooiana Butterscotch' syn St Hilda's	8(1) 5	8(3) 42	9(2) 62			
'Kooiana Daybreak'	3(2) 34	3(2) 19	4(1) 4	5(3) 6		12(1) 74
'Kooiana Moonlight' syn Guildfordian	8(1) 5	8(3) 42	9(2) 62			
'Kooiana Watermelon'	8(1) 5	8(3) 43	9(2) 62		11(2) 56	
'Koranderer' syn Our Copper Queen	10(3) 11	11(2) 43	12(1) 71			
'Korazerka' syn Ekstase	9(2) 8	10(3) 37	11(2) 54			
'Korbacol' syn Texas	7(2) 8	9(3) 54	10(2) 58			
'Korbasren' syn Pink Bassino	9(2) 8	11(2) 43	12(1) 71			
'Korbolak' syn Melody	3(1) 37	3(2) 22	4(1) 4			
'Korcilmo' syn Escimo	7(2) 8	9(3) 55	10(2) 58			
'Korcrisett' syn Calibra	7(2) 8	9(3) 55	10(2) 58			
'Kordaba' syn Lambada	7(2) 7	9(3) 56	10(2) 58			
'Korfeimot' syn Grafin Sonja	9(2) 8				10(2) 60	
'Korferse' syn Coco	4(2) 23	4(2) 20	6(4) 53		10(4) 65	
'Korfischer' syn Hansa-Park	9(2) 8	11(2) 44	12(1) 71			
'Korgenoma' syn Emely	10(3) 11	11(3) 38	12(2) 69			
'Korhoco' syn Vital	10(3) 11	11(3) 39	12(2) 69			
'Korkunde' syn Toscana	3(1) 37	3(2) 23	4(1) 4			
'Korlaper' syn La Perla	7(2) 8	9(3) 57	10(2) 58			
'Korlis' syn Eliza	9(2) 8	11(3) 39	12(2) 69			
'Kormador' syn Tamara	3(1) 37	3(2) 24	4(1) 4			
'Kormarec' syn Sommerabend	9(2) 8	11(2) 45	12(1) 71			
'Kormiller' syn Dream	9(2) 8	10(3) 38	11(2) 54			
'Kormurena' syn Magic Silver	10(3) 11				11(3) 54	
'Korokis' syn Rose Kiss	3(1) 37	3(2) 24	4(1) 4			

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'Koromtar' syn Cream Dream	10(3) 11	11(3) 40	12(2) 69			
'Korpinka' syn Summer Fairytale	7(2) 7	9(3) 58	10(2) 58			
'Korplasina' syn Our Vanilla	9(2) 9	10(3) 38	11(2) 54			
'Korrogilo'	12(2) 14					
'Korruicil' syn Our Esther	10(3) 11	11(3) 41	12(2) 69			
'Korschwama' syn Black Madonna	7(2) 8	9(3) 59	10(2) 58			
'Korsorb' syn Cubana	4(2) 23	6(2) 12	7(2) 28			
'Korsulas' syn Limona	10(3) 11	11(3) 41	12(2) 69			
'Kortanken' syn Domstadt Fulda	9(2) 9	11(2) 46	12(1) 71			
'Korveril' syn Cadillac	3(1) 37	3(2) 24	4(1) 4		10(1) 50	
'Korverpea' syn Kleopatra	9(2) 9	11(2) 47	12(1) 71			
'Korvestavi' syn Sunny Sky	10(3) 11	11(3) 42	12(2) 69			
'Korwilma' syn Perfect Moment	6(1) 29	6(3) 36	7(3) 47			
'Lavdoll' syn Apricot Bouquet	7(2) 5	9(2) 40	10(1) 48			
'Lavflush' syn Double Date	11(3) 12	12(4) 57				
'Lavglo' syn Yellow Minijet	4(4) 23	5(4) 11	6(4) 53	6(2) 34		
'Lavjack' syn Orange Minijet	5(1) 25	6(3) 10	8(4) 50	6(2) 34	12(3) 57	
'Lavquest'	7(2) 6	9(4) 34	10(3) 54	10(3) 56		
'Light Touch'	9(2) 8	10(2) 49	11(1) 64	10(1) 50		
'Lydiver'	12(3) 12					
'Macerupt' syn Orana Gold	3(1) 37	3(2) 15	4(1) 4			
'Macoborn' syn Maggie Barry	8(1) 5	9(1) 25	9(4) 56			
'Macoranlem' syn Oranges And Lemons	9(2) 9	10(3) 39	11(2) 54			
'Macspeego' syn Candella	8(1) 6				10(3) 57	
'Many Happy Returns' syn Harwanted	6(2) 31	7(1) 25	8(1) 39			
'Meibarke' syn Debut Meillandina	3(1) 37	3(1) 23	3(4) 4			
'Meiblonver' syn White Majesty	6(4) 5	9(1) 26	9(4) 56		12(1) 73	
'Meibonrib' syn Magic Meidiland	9(2) 9	9(4) 35	10(3) 54	12(2) 71		
'Meiburtri' syn Luna	8(2) 5				10(4) 64	
'Meicairma' syn Courage	7(3) 6	9(4) 35	10(3) 54	12(2) 71		
'Meicarsel' syn Mascara Minijet	8(4) 7	9(3) 59	10(2) 58			
'Meichevil'	3(3) 26				3(4) 37	
'Meichoiju' syn City of Adelaide	5(3) 20	7(4) 13	8(3) 52	5(4) 35 12(2) 71		
'Meicitrem' syn Lemon Sunblaze	9(4) 10	11(1) 36	11(4) 53			
'Meicobuis'	12(1) 13					
'Meicofum'	10(3) 11	11(3) 42	12(2) 69			
'Meidalnu' syn Mascara	6(4) 6	9(1) 26	9(4) 56		12(1) 73	
'Meidanclar' syn Candy Meillandina	5(1) 25	5(4) 16	6(4) 53	6(3) 46		
'Meidarwet'	10(4) 14				12(1) 73	

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'Meideauri'	10(4) 14			12(2) 71		
'Meideuji' syn Cassandre	6(4) 7	9(4) 35	10(3) 54	12(2) 71		
'Meidiaplou'	3(3) 26				3(4) 37	
'Meidipser' syn Bright Spot	8(2) 5				10(4) 65	
'Meidrofal' syn Happy Minijet	7(4) 6	9(3) 62	10(2) 58		12(3) 57	
'Meiferjac' syn Autumn Sunblaze	9(4) 10	11(1) 37	11(4) 53			
'Meiflopan' syn Alba Meidiland	4(4) 23	6(2) 11	7(4) 40	12(2) 71		
'Meifrony' syn Kalinka 90	3(3) 26	4(3) 7	5(3) 5		9(3) 74	
'Meifruije' syn Apricot Sunblaze	9(4) 10	11(1) 38	11(4) 53			
'Meiglaspo' syn Fragrance Sunblaze	9(4) 10	11(1) 39	11(4) 53			
'Meiglassol' syn Tropico Meillandina	6(2) 33	6(3) 39	7(3) 47			
'Meigormon' syn Maestro	7(3) 8				10(1) 50	
'Meigovin' syn Snow Meillandina	3(1) 37	3(1) 28	3(4) 4		10(4) 65	
'Meigrolet' syn Fragrant Minijet	8(4) 7	9(3) 60	10(2) 58			
'Meigronurisar' syn Climbing Gold Bunny	4(4) 22	6(1) 15	6(4) 53	12(2) 71		7(1) 33
'Meiguitan' syn Marylin	8(2) 5	10(4) 49	11(3) 53		12(3) 57	
'Meiguni' syn Tequila	8(2) 5	10(4) 49	11(3) 53			
'Meihatoil'	10(4) 14				12(1) 73	
'Meihauzrey' syn Bright Minijet	11(3) 12	12(4) 58				
'Meihoto' syn Sammi Minijet	11(3) 12	12(4) 59				
'Meihouba' syn Message 91	6(4) 6	9(1) 27	9(4) 56		12(1) 73	
'Meikanrou' syn Rubina	9(1) 7	10(4) 50	11(3) 53			
'Meijaudiair' syn Aussie Gold	3(4) 38	4(3) 9	5(3) 5			
'Meikister' syn Trudy Mimi	6(4) 5	9(1) 28	9(4) 56		12(1) 73	
'Meikrusa' syn Arianna 85	2(3) 23	2(3) 10	3(2) 5			
'Meilarac' syn Bella Minijet	7(4) 6	9(3) 60	10(2) 58			
'Meilarspo' syn Dream Sunblaze	9(4) 10	11(1) 40	11(4) 53			
'Meilipo' syn Sweetlips Minijet	6(1) 29	6(3) 19	7(3) 48			
'Meilivar' syn Gina Lollobrigida	3(4) 38	3(4) 32	5(3) 5	12(2) 71		
'Meilmera' syn Bridal Sunblaze	9(4) 10	11(1) 41	11(4) 53			
'Meimagul' syn Gypsy Minijet	7(4) 6	9(3) 61	10(2) 58			
'Meineble' syn Red Meidiland	4(2) 23	6(2) 10	7(4) 40	12(2) 71		
'Meinewkan' syn Chin Chin	9(1) 7	10(4) 51	11(3) 53			
'Meineyta' syn Anita	8(2) 5	10(4) 52	11(3) 53			
'Meininrut'	10(4) 14				12(1) 73	
'Meinivoz' syn Spirit of Peace	7(3) 6	9(4) 37	10(3) 54	12(2) 71		
'Meinochot' syn						

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Crimson Minijet	5(1) 25	6(3) 10	7(3) 48	6(2) 34		
'Meioffic' syn						
Sweet Sonata	6(4) 7	9(4) 36	10(3) 54	12(2) 71		
'Meipelta' syn						
Fushia Meidiland	8(1) 6	9(4) 37	10(3) 54	12(2) 71		
'Meiperol' syn Fidelio	5(3) 19	5(4) 28	6(3) 6	9(3) 74		
'Meipinjid' syn						
Duke Meillandina	2(2) 30	2(2) 24	3(1) 4		10(1) 50	
'Meipitac' syn						
Carefree Wonder	5(3) 20	7(4) 12	8(3) 52	5(4) 35 12(2) 71		
'Meiplatin' syn						
Pearl Meidiland	4(4) 23	6(1) 14	6(4) 53	12(2) 71		
'Meiponal' syn						
Sunny Meillandina	3(1) 37	3(1) 29	3(4) 4		10(4) 65	
'Meipopul' syn						
Coral Meidiland	5(4) 33	7(4) 14	8(3) 52			
'Meiqualis'	10(2) 13	11(3) 43	12(2) 70			
'Meirevolt' syn						
Golden Conquest	9(3) 11	11(1) 42	12(1) 71	11(1) 65 12(2) 71		
'Meirolour' syn Concerto	2(3) 23	2(3) 10	3(2) 5			
'Meiroudek' syn						
Rosalina	9(1) 7	10(4) 53	11(3) 53			
'Meiroupis'	10(4) 14			12(2) 71		
'Meirutral' syn						
Prince Meillandina	3(1) 37	3(1) 31	3(4) 4		10(4) 65	
'Meiselgra' syn						
Pink Minijet	4(4) 23	5(4) 10	6(4) 52	6(2) 34	12(3) 57	
'Meispreyo' syn						
Golden Mimi	6(4) 5	9(1) 28	9(4) 56		12(1) 73	
'Meitanet'	10(2) 13	11(3) 44	12(2) 70			
'Meitebros' syn						
The Children's	10(1) 10	11(1) 42	12(1) 71	12(2) 71		
'Meitifran' syn						
Baron Meillandina	3(1) 37	3(1) 25	3(4) 4		9(1) 37	
'Meitinor'	10(3) 11				11(2) 56	
'Meitobla' syn						
Simply Magic	6(4) 7	9(4) 37	10(3) 54	12(2) 71		
'Meitoliel'	10(4) 14				12(1) 73	
'Meitonje' syn						
Pretty Polly	5(3) 20	7(4) 11	8(3) 52	5(4) 35 12(2) 71		
'Meitosier' syn						
Twilight Glow	8(1) 6	11(1) 43	12(1) 71	11(1) 65 12(2) 71		
'Meitralur' syn						
Flame Meillandina	5(4) 17	5(4) 17	6(4) 53	6(3) 46	10(3) 56	
'Meitune'	10(4) 14				12(1) 73	
'Meivamo' syn						
Paris YSL	6(4) 5	9(1) 29	9(4) 56		12(1) 73	
'Meivouplix' syn Kabuki	2(3) 23	2(3) 13	3(2) 5		8(2) 31	8(3) 53
'Meivrofix' syn Zurella	2(3) 23	2(3) 13	3(2) 5		8(2) 31	8(3) 53
'Meixemat'	12(4) 13					
'Meixerul' syn						
Peach Meillandina	3(1) 37	3(1) 32	3(4) 4			
'Meixtraflo' syn Lutin	3(3) 26	4(3) 10	5(3) 5		9(3) 74	
'Meizaipur' syn Mischka	2(1) 14	2(3) 4	3(2) 5		9(2) 63	
'Meizogrel' syn						
White Minijet	4(4) 23	5(4) 10	6(4) 52	6(2) 34		
'Melinda Gainsford' syn						
Jacyap	7(1) 6	8(1) 32	8(4) 50			
'Metset' syn Cristian	8(2) 5				9(1) 37	
'Michelle Joy' syn						
Aroshrel	4(11) 24	4(3) 10	5(3) 6		10(3) 56	

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'MK II'	11(4) 12					
'Morredfar' syn Fairy Carpet	9(3) 11				11(4) 55	
'My Sweet Honeycomb'	10(2) 13	12(1) 50	12(4) 101			
'Nano Nagle'	10(4) 14					
'Nirpeter'	12(4) 13					
'Nirpnufdeu'	11(4) 12					
'Nirpstrip' syn Shiba	10(3) 11	12(2) 48				
'Noafeuer' syn Red Noack Groundcover	9(2) 9				10(2) 60	
'Noamel' syn Appleblossom Ground Cover	8(3) 7	9(2) 41	10(1) 49	9(1) 37		
'Noare' syn Red Ground Cover	10(4) 14	11(3) 45	12(2) 70	10(3) 56		
'Noaschnee' syn White Noack Groundcover	5(3) 18	6(3) 13	7(3) 47	5(4) 35		
'Noala' syn Coral Ground Cover	12(2) 14					
'Noason' syn Yellow Ground Cover	10(3) 11	11(3) 45	12(2) 70	10(3) 56		
'Noatraum' syn Pink Noack Groundcover	3(4) 38	5(2) 9	6(1) 7	5(4) 35 12(1) 73		
'Olijcrem'	10(3) 11	11(3) 46	12(2) 70			12(2) 72
'Olijkroet'	10(3) 11				11(2) 56	
'Olympic Gold'†				9(2) 62		
'Olytel' syn Super Disco	6(4) 6				8(2) 31	
'Onkaparinga'	12(2) 15					
'Paradise Heritage'	8(4) 7	10(2) 49	11(1) 64			
'Pekcoujenny' syn First Red	5(4) 33	7(3) 18		11(4) 55		
'Pink Bouquet'†				10(3) 56		
'Pink Iceberg'	7(1) 7	8(1) 32	8(4) 50	10(1) 50		
'Pink Kardinal'	7(2) 7	8(3) 44	9(2) 62			
'Poulagun'	12(4) 13					
'Poulals' syn Coral Parade	5(4) 32				8(3) 53	
'Poulann' syn QueenParade	5(4) 32	10(1) 33	10(4) 63	10(4) 64		
'Poulari' syn Karen Blixen	9(4) 10	11(4) 43	12(3) 56	11(4) 55		
'Poulberin'	12(4) 13					
'Poulbero' syn Solitude	8(1) 6	9(1) 30	9(4) 56	11(4) 55		
'Poulcar' syn Pink Parade	5(4) 32				8(3) 53	
'Poulci' syn Classic Parade	5(4) 33	10(1) 33	10(4) 63	10(4) 64		
'Pouldace'	12(4) 13					
'Pouldra'	12(4) 13					
'Poulesta'	12(3) 12					
'Poulester' syn Easter Parade	5(4) 32				8(3) 53	
'Poulezy'	12(3) 12					
'Poulobe'	12(3) 12					
'Poulgrad'	12(4) 13					
'Poulhappy' syn Charming Parade	11(1) 9	11(2) 47	12(2) 70			
'Poulina' syn Ballerina Parade	5(4) 32				8(3) 53	
'Poulisab'	12(4) 13					
'Poullen' syn Little Bo Peep	8(1) 6	9(1) 30	9(4) 56			
'Poulmanti'	12(4) 13					
'Poulna'	12(4) 14					

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'Poulody'	12(3) 12					
'Pouloral' syn Dreaming Parade	5(4) 33	10(1) 34	10(4) 63	10(4) 64		
'Poulorin'	12(4) 14					
'Poulpear'	12(4) 14					
'Poulpollo'	12(3) 12					
'Poulsail'	12(4) 14					
'Poulsiana'	12(4) 14					
'Poulsolo'	12(4) 14					
'Poulvic' syn Victory Parade	5(4) 33	10(1) 34	10(4) 63	10(4) 64		
'Poulspor' syn Royal Parade	5(4) 33				10(4) 64	
'Poulstar' syn Starlight Parade	5(4) 32				8(3) 53	
'Poulvue' syn Michael Crawford	8(1) 6	9(1) 30	9(4) 56	11(4) 55		
'Poulyn'	12(3) 12					
'Poulzin'	12(4) 14					
'Prebian' syn Bianca	8(2) 5	10(1) 32	11(1) 64			
'Precious Michelle' syn Macbucpal	4(1) 24	4(3) 12	5(3) 5		10(3) 56	
'Pretaner'	10(3) 11	12(2) 48				
'Pretufo' syn Charon	10(3) 11				11(4) 55	
'Protem'					11(1) 66	11(2) 56
'Quaker Star' syn Dicperhaps	4(2) 23	4(2) 13	5(4) 5		8(4) 51	
'Red Iceberg'	12(4) 14					
'Reflection'	9(4) 10					
'Remember All'	4(2) 12	4(2) 12				
'Rock & Roll' syn Macfirwal	4(1) 24	4(3) 12	5(3) 6		10(3) 56	
'Ruialex' syn Red Festival	7(1) 9	9(2) 42	10(1) 49			
'Ruicharm' syn Charming Festival	7(1) 8	9(2) 42	10(1) 49			
'Ruichris' syn Sunny Cupido	7(1) 9	9(2) 43	10(2) 58			
'Ruiconti' syn Yellow Unique	12(1) 13					
'Ruidiggel' syn Snowy Cupido	7(1) 8	9(2) 44	10(1) 49			
'Ruidriko' syn Vivaldi	5(4) 33	7(3) 17	8(2) 31			
'Ruifire' syn Fire Festival	7(1) 8	9(2) 44	10(1) 49			
'Ruigal' syn Milana Festival	7(1) 8	9(2) 45	10(1) 49			
'Ruijoho' syn Sunny Prophyta	9(2) 9	10(1) 34			10(4) 64	
'Ruikuik' syn Cream Prophyta	8(2) 5	10(1) 35	11(1) 64			
'Ruioran' syn Orange Unique	12(1) 13					
'Ruipipi' syn Joker Festival	7(1) 9	9(2) 46	10(1) 49			
'Ruirodella' syn Pink Festival	7(1) 8	9(2) 46	10(1) 49			
'Ruirovingt' syn Prophyta	7(1) 6	10(1) 35	11(1) 64			7(2) 29
'Ruizesac' syn Astra	6(3) 44	7(3) 31	8(2) 31			6(4) 54
'San-Ka' syn Enchantment	6(2) 31	7(1) 27	8(1) 39		9(1) 37	
'Savaje' syn Auria Meillandina	5(4) 18	5(4) 18	7(2) 28	6(3) 46	12(1) 73	
'Savoy Hotel' syn Harvintage	5(2) 16	5(2) 16	7(2) 28			
'Schobitet'	3(1) 37	3(1) 27	3(4) 4		9(1) 37	9(2) 63
'Schovian' syn Viviane	8(2) 5	10(1) 37	11(1) 64			

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'Seajulc' syn Climbing Julia's	9(2) 9				10(1) 50	
'Selalu' syn Dai	4(4) 22	6(1) 13	6(4) 54		9(1) 37	
'Selargon' syn Vicki Brown	4(4) 22	6(1) 10	6(4) 54		9(1) 37	
'Selcarbonium' syn Honesty	7(1) 6	10(1) 36			10(4) 64	
'Selchroom' syn Amarillo	7(1) 6	10(1) 37			10(4) 64	
'Selferr' syn Shadow	4(4) 22	6(1) 10	6(4) 54		8(1) 39	8(4) 52
'Selhafnium' syn Allure	7(1) 6	10(1) 37			10(4) 64	
'Selnessee' syn Selstar	5(1) 24	6(1) 12	6(4) 54		9(1) 37	
'Selscandium' syn Mini Champagne	7(1) 6	10(1) 36	11(1) 64			
'Selspray' syn Sprayer	4(4) 23	6(1) 11	6(4) 54		9(1) 37	
'Seltitaan' syn Marjan	4(4) 22	6(1) 13	6(4) 54		9(1) 37	
'Sheer Bliss' syn Jactro	5(1) 25	5(3) 6	6(2) 5			
'Smooth Melody' syn Hadmelody	7(1) 6	8(3) 45	9(2) 62			
'Smooth Perfume' syn Hadperfume	7(1) 6	8(3) 46	9(2) 62			
'Smooth Prince' syn Hadprince	7(1) 6	8(3) 47	9(2) 62			
'Sommermelodie'	8(3) 7			10(3) 56		
'Sommermelodie'†				9(1) 37		
'Spekes' syn Our Sacha	9(2) 9	10(3) 39	11(2) 54			
'Spekra' syn Our Rodeo	9(2) 9				10(2) 60	
'Spevu' syn Lovely Fairy	7(2) 5	10(1) 38	11(1) 65			
'St Peters Rose' syn Saints					12(2) 71	
'Stebigpu' syn Big Purple	3(2) 34	3(2) 16	4(1) 4			3(3) 26
'Sunauck' syn Barossa Dream	8(1) 6	9(3) 63	10(2) 58			
'Sundel' syn Delilah	8(2) 5	10(1) 38	11(1) 65			
'Sunlampo' syn Bellissima	12(4) 14					
'Sunlida'	10(3) 11					
'Sunluck'	12(1) 13					
'Sunmani' syn Oasis Sunset	8(4) 7	9(3) 63	10(2) 59			
'Sunpari' syn La Parisienne	12(4) 14					
'Sunpat' syn Opal	8(1) 6	10(1) 38			10(4) 64	
'Sunsalm' syn Gem	8(1) 6	10(1) 39			10(4) 64	
'Sunscent' syn Scentasia	10(3) 11	12(2) 49				
'Suntick' syn Tickled Pink	8(1) 6	8(3) 48	9(2) 62			
'Suntink' syn Tinkerbell	6(1) 28	7(3) 18	8(3) 52			
'Sunwend' syn Wendy	6(1) 28	7(3) 18	8(2) 31			
'Sunyel' syn Little Nugget	8(2) 5				11(1) 66	
'Tanadeepdac'	11(2) 15	12(2) 50				
'Tanafira'	10(2) 13	11(2) 48	12(1) 71			
'Tanakinom' syn Monica	5(4) 35	7(1) 12	8(1) 39			
'Taneitber' syn Tantaus Bernstein	5(2) 16	5(2) 16	7(2) 28			6(1) 31
'Taneitber' syn Tantaus Bernstein						6(2) 35
'Tanfudermos' syn Summer Fragrance	4(2) 23	4(2) 13	5(4) 5			
'Tanfudermos' syn Summer Fragrance			6(2) 4			
'Taniffest'	10(2) 13	11(2) 49	12(1) 71			
'Taniliram'	11(2) 15	12(2) 51				
'Tanireb' syn Belle of Berlin	5(4) 35	10(4) 54	11(3) 53			
'Tankalcig'	10(2) 13	11(2) 49	12(1) 71			

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'Tanledolg' syn Peter Mac's Gold Juwel	11(3) 12					
'Tanmirsch syn Golden Touch	10(1) 10					
'Tanmixa' syn Joy of Life	10(2) 13	12(1) 51				
'Tannollipa'	11(2) 15	12(2) 52				
'Tanschaubud' syn Olde Fragrance	3(2) 34	3(2) 21	4(1) 4			
'Tennessee'	4(4) 23	6(1) 9	6(4) 54			
'Tineke'	3(4) 38	4(2) 6			5(1) 7	
'Twoaebi'	12(4) 14					
'Twojoan'	12(4) 14					
'Twopaul'	12(4) 14					
'Twoyel'	12(4) 14					
'Victoria Gold' syn Welgold	6(4) 8	9(2) 47	10(1) 49	9(2) 62		
'Vision'†				10(2) 59		
'Wekamanda'	9(4) 10	11(4) 44	12(3) 56	10(4) 64		
'Wekamanda' syn St Patrick†				10(4) 64		
'Wekaq' syn The Temptations	8(1) 6	9(1) 31	9(4) 56			
'Wekblagab'	10(2) 13					
'Wekdykstra' syn Rose of Narromine	11(3) 12					
'Wekjoe' syn Lynn Anderson	9(2) 9	10(3) 40	11(2) 54			
'Wekmar' syn Imagination	8(1) 6	9(1) 31	9(4) 56			
'Wekplapep' syn Scentimental	11(3) 12					
'Wekplapic' syn Centenary of Federation	12(4) 14					
'Welpeach' syn Veronica Kay	7(1) 5				8(2) 31	8(3) 53
'Welpink' syn Muskstick	7(1) 5	9(2) 47	10(1) 49			
'Welred' syn Eric The Red	7(1) 5	9(2) 48	10(1) 49	9(3) 73		
'White Flower Carpet'†				5(4) 35		
'White Simplicity' syn Jacsnow	5(1) 25	5(3) 8	6(2) 5			
'Woman's Day' syn Welira	5(3) 17	8(3) 49	9(2) 62			9(1) 37
'Yellow Noack Ground Cover'†				10(3) 56		
'Young At Heart'	1(2) 14	1(2) 13	2(2) 4	2(2) 31		
'Yu Giri'	7(2) 4				8(4) 51	8(2) 31
rugosa 'Lily Freeman' syn Huxl 1	9(2) 9	10(1) 39	10(4) 63			
Rosmarinus officinalis 'Renzels' syn Irene	10(2) 13	12(3) 45				
'Scentuous Blue'	9(4) 10	10(4) 54	11(3) 53			
Saccharum hybrid '76N749'†				10(2) 59		
'77N330'†				10(1) 50		
'82C954'	8(4) 7				9(4) 57	
'84N2330'†				10(2) 59		
'84N2947'†				10(1) 50		
'85S1552'†				10(1) 50		

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'86A55'†				10(2) 59		
'Q163'	8(4) 8	9(4) 45	10(3) 55			
'Q165'	8(4) 8	9(4) 46	10(3) 55			
'Q166'	8(4) 8	9(4) 47	10(3) 55	10(1) 50		
'Q167'	8(4) 7	9(4) 48	10(3) 55	10(1) 50		
'Q168'	10(1) 11					
'Q169'	10(1) 11					
'Q170'	8(4) 8	9(4) 49	10(3) 55	10(1) 50		
'Q171'	8(4) 8	9(4) 44	10(3) 55	10(2) 59		
'Q172'	8(4) 7	9(4) 42	10(3) 55	10(2) 59		
'Q173'	11(2) 15	12(2) 53				
'Q174'	8(4) 8	9(4) 43	10(3) 55	10(2) 59		
'Q175'	11(2) 15	12(2) 55				
'Q176'	12(2) 15	12(4) 67				
'Q177'	12(2) 15	12(4) 70				
'Q178'	12(3) 12	12(4) 73				
'Q179'	12(3) 12	12(4) 75				
'Q180'	12(2) 15	12(4) 78				
'Q181'	12(3) 13	12(4) 80				
'Q182'	12(3) 13	12(4) 83				
'Q185'	12(3) 13	12(4) 85				
Santalum						
acuminatum						
'Frahn's Paringa Gem'	9(2) 8					
'Powell's Number One' syn Row 1 Tree 1	6(1) 27					
Santolina						
virens						
'Lemon Fizz'	7(4) 6	9(2) 19	10(1) 47			
Sanvitalia						
procumbens						
'Pizzaro's Button' syn Stargazer	5(2) 35				7(1) 33	7(3) 49
Sapium						
sebiferum						
'Johan Harder'	4(4) 23				8(3) 53	
Scabiosa						
columbaria						
'Butterfly Blue' syn Butterfly Blue (Beauty)	5(3) 18	5(4) 20	6(4) 53	10(2) 60 12(4) 102		6(1) 32 6(2) 35
'Pink Mist'	5(3) 18	5(4) 20	6(4) 53	10(2) 60 12(4) 102		6(1) 31 6(2) 35
'Samanthas Pink'	12(3) 12					
Scaevola						
aemula						
'Blue Fandango'	7(3) 6	10(2) 32	11(1) 63	8(1) 39		
'Golden Fanfare'	7(2) 8				8(3) 53	
'Petite Cascade'	5(3) 19	6(2) 24	7(1) 32	6(4) 54 8(4) 51	10(1) 50	
'Petite'†				6(4) 51		
'Purple Cascade'					9(3) 74	
'Rhapsody'	12(2) 11					
'Royal Fanfare'†				8(1) 39		
'Summertime Blues'	10(1) 10	10(1) 40	11(1) 63			
'Sweet Serenade'	12(2) 11					
phlebopetala						
'No.33'	12(1) 11					

	Public Notice	Description	Grant	Varied	Withdrawn/ Surrendered/ Revoked/ Refused	Corrigenda
Schefflera						
arboricola						
'Mme De Smet'	8(1) 6	9(1) 31	9(4) 56			
heptaphylla						
'Jungle Gem'	12(2) 15					
Schlumbergera						
hybrid						
'Bridgeport'	2(4) 39	2(4) 30	3(3) 5	11(4) 55		
'Cambridge'	2(4) 39	2(4) 31	3(3) 5	11(4) 55		
'Gold Fantasy' syn Christmas Flame	2(4) 39	2(4) 34	5(1) 6	11(4) 55		
'Orange Fantasy'	2(4) 39	2(4) 35	3(3) 5	11(4) 55		
'Santa Cruz'	2(4) 39	2(4) 36	3(3) 5	11(4) 55		
truncata						
'Aspen'	7(3) 7	12(3) 50				
'Christmas Fantasy'	3(2) 34	3(2) 10	4(1) 4	11(4) 55		
'Holiday Splendor'	6(3) 44	10(4) 59	11(3) 53			
'Pasadena'	7(3) 7	10(4) 60	11(3) 53			
'Sanibel'	5(3) 19	7(2) 14	8(1) 38	11(4) 55		
'Savannah'	10(2) 15	12(3) 53				
'Sleigh Bells'	6(3) 44	10(4) 60	11(3) 53			
'St. Charles'	9(2) 6	12(3) 52				
'Sunburst Fantasy'	12(2) 15					
'White Fantasy'	11(2) 15					
'Windsor'	5(3) 19	7(2) 15	8(1) 38	11(4) 55		
truncata hybrid						
'Lavender Fantasy' syn Lavender Doll II	3(4) 38	3(4) 22	4(3) 6	11(4) 55		
'Magic Fantasy' syn Christmas Magic 11	3(4) 38	3(4) 22	4(3) 6	11(4) 55		
xreginae						
'Carmen'	8(4) 7	9(3) 65	10(2) 59	12(3) 57		
'Madame Butterfly'	1(3) 13	1(3) 7	2(2) 4	8(4) 51 12(3) 57		
'Mikado'	8(4) 7	9(3) 66	10(2) 59	12(3) 57		
'St Andrew'†				8(4) 51		
'Swan Lake'	8(2) 6	9(3) 66	10(2) 59	8(4) 51 12(3) 57		
Scholtzia						
oligandra						
'White Cascades'	6(4) 7	9(2) 49	10(1) 49		11(1) 66	
Serruria						
florida						
'Superb Blush'	6(4) 7	8(1) 11	8(4) 49			
florida x rosea						
'Sugar'n'spice'	3(4) 38	3(4) 30	4(4) 4			
Sesamum						
indicum						
'Aussie Gold' syn Line 339	6(1) 28	7(1) 14	8(1) 39			
'Beech's Choice' syn Line 91	6(1) 28	7(1) 13	8(1) 39			
'Edith' syn Y1:44	8(3) 7	9(3) 64	10(2) 59			
Setaria						
sphacelata						
'Splenda'	1(3) 13	1(3) 10	2(2) 4			
Simmondsia						
chinensis						
'Barindji'	3(1) 37	3(1) 14	3(4) 4			

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'Wadi Wadi'	4(4) 23	4(4) 19	6(1) 6			
'Waradgery'	3(1) 37	3(1) 14	3(4) 4			
Solanum						
rantonnetii						
'Golden Robe'	10(4) 10	11(4) 15				
tuberosum						
'Argos'	9(3) 11	12(3) 40		12(2) 71		
'Azur'	7(1) 7			10(1) 50	12(1) 73 12(2) 71	
'Celeste'	10(2) 13	10(4) 46		12(2) 70		
'Crop 3'†	10(3) 10			11(2) 56		
'Crop 4'	11(4) 11					
'Cycloon'	11(4) 12					
'Driver' syn Crop 8†				12(3) 57		
'Driver' syn Golden Delight	11(4) 12			12(3) 57		
'FL 1867'	12(4) 13	12(4) 49				
'Forta'	7(1) 7			10(1) 50	12(1) 73 12(2) 71	
'Gladiator'	7(2) 6	8(1) 29	8(4) 50		12(4) 103	
'Goldstar'	10(1) 10	10(4) 41		12(2) 70		
'HAV 84-3'†				12(2) 70		
'Heather'	9(2) 8	11(1) 27	11(4) 52	12(2) 71		
'Hilite Russet'	6(1) 28	6(3) 16	7(2) 28		11(1) 66	
'Kan Chip'	10(4) 14				11(1) 66	
'Karlena'	6(2) 32				10(2) 60	
'Kestrel'	8(3) 7	11(1) 27	11(4) 52	12(2) 71		
'Lady Christl'	11(4) 12					
'Latona' syn VDZ 83-60	10(1) 10	10(4) 43	11(3) 53			
'Liseta'	4(4) 23	5(4) 6	6(3) 6	12(2) 71		
'Macrusset'	10(3) 11				11(1) 66	
'Maradonna'	4(4) 23	5(4) 6	6(3) 6		12(1) 73	
'Mondial'	4(4) 23	5(4) 6	6(3) 6	12(2) 71		
'Morene'	1(3) 13	3(2) 6	5(1) 6	12(2) 71		3(4) 38
'Nadine'	5(3) 18	7(4) 8	8(3) 52	12(2) 71		
'Novita'	8(4) 7	9(3) 45	10(3) 54	12(2) 71		
'Pacific' syn Crop 5	11(4) 11					
'Panda'	5(1) 25			5(3) 20 9(2) 62		
'Pepo'	7(1) 7			10(1) 50	12(1) 73 12(2) 71	
'Platina'	11(3) 11			12(2) 71		
'Proloog'	8(3) 7	8(4) 46	9(3) 73		12(1) 73	
'Red Rascal'		11(4) 40	12(3) 56	11(2) 56		
'Redgem'	9(3) 11	12(3) 41		12(2) 71		
'Redstar'	12(3) 12					
'Remarka'	8(3) 7	8(4) 46	9(3) 73	12(2) 71		
'Riverina Russet'	10(3) 11				11(1) 66	
'Royal Blue'	9(3) 11	10(4) 45		12(2) 70		
'Ruby Lou'	10(3) 11				11(1) 66	
'RZ 85-618'†				12(2) 70		
'Saxon' syn 81c 116-41	9(4) 10	11(1) 28	11(4) 52			
'Shine'	10(4) 14				11(1) 66	
'Smith's Astra'	11(1) 8	12(1) 45	12(4) 100			
'Smith's Aurora'	12(1) 12	12(1) 45	12(4) 100			
'Smith's Comet'	12(1) 13	12(1) 46	12(4) 100			
'Smith's Orion'	10(4) 13	12(1) 47	12(4) 100			
'Smith's Starlight'	12(4) 13					
'Smith's Stellar'	10(4) 13	12(1) 47	12(4) 100			
'Snow Gem'	6(3) 43			10(4) 64	11(1) 66	
'St. Johns'	9(2) 8	11(1) 30	12(1) 71	12(2) 71		
'Symfonia' syn 'Victoria'	12(3) 12					
'WAL 82-161	9(3) 11	10(4) 46	11(3) 53			
'Valor'	8(3) 7	11(1) 31	11(4) 52	12(2) 71		

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'VDW 82-101'†				12(2) 70		
'Wilwash'	4(2) 23	4(2) 17	5(4) 5			6(1) 31
'Winlock'	3(2) 34	3(2) 7	4(1) 4		11(1) 66	
'Winston'	8(3) 7	11(1) 31	11(4) 52	12(2) 71		
Sorghum						
bicolor var. *sudanese*						
'WKM IV'					10(4) 64	
Spathiphyllum						
floribundum x lechlerianum						
'Leprechaun'	6(4) 9	11(1) 45	11(4) 52		11(1) 66	
hybrid						
'Bond A' syn Symphony	7(3) 6					
'Ceres Star' syn H 506†				12(3) 57		
'Ceres' syn Ceres Star	9(1) 6	12(3) 32		12(3) 57		
'Frederick' syn SPFR	9(3) 11	12(1) 41	12(4) 100			
'Gorgusis 1' syn Sensation	4(4) 23	8(1) 28	9(1) 36			
'Metalica' syn Ara 70	8(1) 6	9(2) 34	10(1) 48			9(3) 74
sp						
'Sandra' syn Sandra	6(2) 33	7(1) 23	8(1) 39	9(3) 73		
'Tamborine Gold'	6(2) 32				9(2) 62	
wallisii						
'Caroline'	5(1) 26	7(1) 9	8(4) 50		12(4) 103	
Spiraea						
japonica						
'Walbuma'	12(1) 13					
Sporobolus						
virginicus						
'Nathus Green'	10(2) 14	11(3) 47				
'Ozlawn'	12(4) 14					
Stenanthemum						
scortechinii						
'White Mischief'	5(2) 35	6(1) 24	7(1) 32			5(3) 21
Stenotaphrum						
secundatum						
'Sir Walter'	9(4) 8	10(2) 24	11(1) 63			
'SS100'	9(3) 12	12(2) 26				
Stokesia						
cyanea						
'Purple Parasols'	12(1) 13					
Stylosanthes						
hamata						
'Amiga'	3(3) 26	3(3) 23	5(1) 7			
scabra						
'Feira'	3(4) 38	3(4) 34	4(4) 5			
'Jecuipe' syn Bahia	3(4) 38	3(4) 33	4(4) 5			4(1) 25
'Recife'	3(4) 38	3(4) 33	4(4) 5			
sp. nov. aff. s. scabra						
'Primar'	9(3) 9	9(3) 19	10(2) 55	9(4) 57		
'Unica'	9(3) 9	9(3) 20	10(2) 55	9(4) 57		
Sutera						
cordata						
'Bridal showers'	12(4) 14					
'Blizzard' syn White Falls	9(3) 12	11(4) 45				
'Eight Bells'	9(3) 12				12(4) 102	

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'Gold 'n Pearls'	12(4) 14					
'Knysna Hills'	9(3) 12				12(4) 102	
'Lavender Showers	11(3) 12					
'Lavender Storm'	12(4) 14					
'Pink Domino' syn Mauve Mist	8(4) 8	9(1) 33	9(4) 56			9(2) 63
'Snow Flirt'	10(2) 14				11(2) 56	
'Star Whispers'	10(2) 14				11(2) 56	
Syngonium						
podophyllum						
'Gold Allusion'	10(3) 10	12(1) 55	12(4) 101			
'Holly M' syn White Holly†				12(4) 102		
'Maria Allusion' syn Cherry Allusion	12(1) 13	12(1) 56	12(4) 101			
'Ultra'	5(2) 35	6(1) 22	6(4) 53		8(3) 53	
'White Holly'	10(3) 10	12(1) 55	12(4) 101	12(4) 102		
Syzygium						
australe						
'Aussie Boomer'	10(4) 12	11(2) 26	12(1) 70			
'Blaze'	6(3) 45	7(3) 38	8(3) 52	7(3) 49		
'Bush Christmas'	8(2) 3	10(3) 20				
'Elegance'	12(3) 11	12(4) 47				
'Tiny Trev'	8(3) 5	9(1) 20	9(4) 56			
luehmannii						
'Little Lucy'	11(4) 12					
'Petite Blush'	9(4) 10	12(3) 28				
'Royal Flame'	10(3) 9				11(4) 55	
'Sophie'	8(4) 6				9(3) 74	
oleosum						
'Amber Curls'	9(1) 6	11(1) 17	11(4) 52			
paniculatum						
'Lillyput'	5(1) 25	6(1) 22	6(4) 53			5(2) 36
'Little Lil'	11(3) 11	12(3) 27				
'Undercover'	6(4) 5	9(3) 33	11(1) 63	9(2) 62		
Tagetes						
hybrid						
'Polynema'	10(3) 10	12(2) 33				
Telopea						
speciosissima						
'Cardinal' syn Pope's Weromba Cardinal	7(3) 7	9(4) 51	10(3) 55	8(2) 31		
'Dreaming'	8(2) 6	11(4) 47				
'Fire 'N Ice' syn Fire and Ice	8(4) 8	9(4) 52				
'Fire and Brimstone'	7(2) 8	9(4) 51	10(3) 55			
'In The Pink' syn Number 359	8(2) 6				9(1) 37	
'Shade Of Pale'	8(4) 8	9(4) 52	10(3) 55			
'Songlines' syn No. 20	9(3) 12	11(4) 48				
'Sunburst'	3(3) 26	3(3) 16	5(2) 5	7(2) 29		
'Sunflare'	3(3) 26	3(3) 16	5(2) 5			
speciosissima x oreades						
'Gembrook'	12(1) 13					

	Public Notice	Description	Grant	Varied	Withdrawn/ Surrendered/ Revoked/ Refused	Corrigenda
Themeda						
triandra						
'Mingo'	9(2) 7	10(2) 35	11(3) 52			
'Tantangara'†				11(1) 65		
'Tangara'	9(2) 7	10(2) 35		11(1) 65		
Thinopyrum						
ponticum						
'Dundas'	10(2) 14	12(2) 58		10(4) 64		
Thryptomene						
calycina						
'Ivory Lace'	9(1) 7				10(3) 56	
Thuja						
occidentalis						
'Star-Struck'	9(3) 12	9(3) 66	10(2) 59			
Tibouchina						
organensis						
'Totally Moonstruck'	10(2) 12	11(2) 23	12(1) 69			
Torenia						
fournieri						
'Sunrenilabu' syn Blue magic	12(2) 15	12(2) 59				
Trifolium						
alexanderum						
'Elite II'	9(1) 4	12(1) 25				
ambiguum						
'Endura' syn KZ1	8(1) 3	8(3) 20	9(2) 61			
fragiferum						
'Grasslands Onward'	9(1) 7	9(2) 50	10(1) 49			
incarnatum						
'Blaza'	12(2) 11	12(4) 32				
michelianum						
'Bolta'	9(1) 5	10(2) 22		10(1) 50		11(2) 56
'Embal'†				12(2) 70		
'Frontier'	12 (1) 10			12(2) 70		
'KRC -1'†				10(1) 50		
pratense						
'Astred'	4(1) 23	5(4) 7	6(1) 7			
'Grasslands Colenso'	3(3) 26	3(3) 22	5(4) 3			
'Grasslands G27' syn G27	8(1) 5	8(1) 29	8(4) 50			
repens						
'Clever Club'	7(4) 7	9(1) 34	9(4) 57			9(2) 63
'Grasslands Bounty'	12(4) 15	12(4) 90				
'Grasslands Challenge' syn G23	8(2) 6	9(1) 35	10(2) 59			
'Grasslands Demand' syn G26	6(1) 29	6(3) 22	7(3) 48			
'Grasslands Kopu'	2(2) 31	2(2) 28	4(3) 6			
'Grasslands Prestige' syn G39	6(1) 29	6(3) 21	7(3) 48			
'Grasslands Nusiral'	12(2) 15	12(2) 65				
'Grasslands Sustain'	8(2) 6	9(1) 35	10(1) 49			
'Grasslands Tahora'	2(2) 31	2(2) 28	3(2) 5			
'Prop' syn WEF	6(4) 6	6(4) 50	7(4) 40			
'Tillman 2'†				10(1) 50		
'Tillman II'	9(3) 12	10(1) 45	11(1) 65	10(1) 50		10(2) 60
'Waverley'	8(1) 6	10(3) 50	11(2) 53			

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resupinatum						
'Kyambro'	2(2) 30	2(2) 17	3(1) 4			
'Lightning'	10(4) 14					
'Morbulk'	10(4) 14					
'Nitro Plus'	10(1) 10	10(4) 36				
'Persian Prolific'	10(1) 10	10(4) 37				
resupinatum var majus						
'Laser'	8(1) 5	12(1) 44				
'Leeton'	8(1) 5	12(1) 44				
subterraneum						
'Breeding Line Khan 7.6'	9(3) 12				11(1) 66	
'Denmark'	4(4) 23	4(4) 18	6(3) 6			
'Gosse'	5(4) 34	7(1) 13	8(1) 39			
'Goulburn	4(4) 23	4(4) 19	6(3) 6			
'Leura'	4(2) 27	4(2) 7	6(1) 5			
'Riverina' syn 76y51-31	8(3) 8	9(1) 33	9(4) 56			9(2) 63 9(4) 57 10(1) 51
'Rosedale'	2(2) 30	2(2) 18			3(3) 6	
'York'	6(4) 9	7(3) 41	9(1) 36			
'SE003'	11(4) 12					
subterraneum spp brachycalycinum						
'Nuba'	3(1) 37	3(1) 11	4(1) 4			3(3) 26 4(1) 25
vesiculosum						
'Arrotas'	9(4) 8	11(3) 14		12(1) 73		
'Cefalu'	10(3) 9	12(2) 24		12(4) 102		
xTriticosecale						
'Abacus'	5(1) 17	5(1) 17	6(1) 5			5(2) 36
'Credit' syn Ox83-50	10(2) 14	11(1) 47	11(4) 53			
'Heritage Zephyr'	11(2) 15	12(1) 58	12(4) 101			12(2) 72
'Maiden'	6(2) 31	12(2) 60				
'Treat'	11(1) 9	11(1) 47	11(4) 53			
'Packy'					10(1) 50	
Triticum						
aestivum						
'Ajana' syn WAWHT2127	11(3) 12	12(1) 61	12(4) 101			
'Anlace'	12(2) 15					
Amery' syn 81y:971	6(4) 9	7(4) 26	10(4) 63			
'Arnhem' syn QT4229	9(3) 12	10(3) 45	11(2) 55			
'Arrino'	10(2) 14	11(1) 48	11(4) 53			12(1) 72
'Baxter' syn QT6258 Res	10(4) 15	10(4) 55	11(3) 53			
'Brennan'	11(3) 12	12(1) 62	12(4) 101			
'Brookton'	10(2) 14	11(1) 49	11(4) 53			12(1) 72
'Calingiri'	10(2) 14	11(1) 50	11(4) 53			12(1) 72
'Carnamah' syn WAWHT1380	9(4) 11	10(1) 42	10(4) 63			
'Camm' syn WAWHT2088	11(3) 12	12(2) 65				
'Cascades' syn 84z:1156	8(2) 6	9(4) 53	10(4) 63			
'Cunderdin' syn WAWHT1379	9(4) 11	10(1) 43	10(4) 63			10(2) 60
'Datatine' syn 84w:1147	8(2) 6	9(4) 53	10(4) 63			
'Galaxy H45'†				12(2) 70		
'H45'	11(2)13	12(3) 50		12(2) 70 12(2) 72		
'Dennis'	12(4) 15	12(4) 89				
'Giles' syn QT6581	10(4) 15	10(4) 56	11(4) 53			
'Goldmark' syn VF 508	9(2) 10	10(2) 52	11(1) 65	9(4) 57 10(1) 50 10(4) 64		
'Gordon' syn RRL 31	10(2) 15	11(1) 51	11(4) 53			

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'Kalannie' syn WAWHT1426	9(4) 11	10(1) 44	10(4) 64			
'Karlgarin'	12(4) 15					
'Kennedy' syn QT6063	9(4) 11	10(3) 48	11(2) 55			
'Krichauff'	10(2) 14				11(3) 54	
'Lang'	12(4) 15					
'Lawson'	4(2) 23	4(4) 10	5(3) 6			
'Mawson' syn QT7274	9(3) 12	10(3) 48	11(2) 55			
'Monad'	9(3) 12	11(1) 52	12(1) 72			
'Nyabing'	10(2) 14	11(1) 53	11(4) 54			12(1) 72
'Paterson' syn B173 Paterson	8(4) 8	9(2) 59	10(1) 49			
'Pelsart' syn QT4639	6(4) 6	7(4) 23	9(1) 36			9(2) 63
'Perenjori' syn WAWHT1308	9(4) 11	10(1) 44	10(4) 64			
'Petrie'	12(4) 15					
'QT5793'	9(3) 12	10(3) 49	11(2) 55			
'Rowan' syn QT4636	6(4) 6	7(4) 23	8(3) 53			
'Silverstar' syn VF664	9(2) 10	10(2) 52	11(1) 65	9(3) 73 10(4) 64 10(1) 50		
'Stiletto' syn RAC 680	7(1) 5	10(3) 49	11(2) 55		12(4) 103	
'Stretton' syn 80y:1117	6(4) 9	7(4) 25	10(4) 64			7(2) 29
'Sturt' syn QT6285	9(4) 11	10(3) 50	11(2) 55			
'Sunbrook' syn Sun 224a	9(2) 9	10(4) 57	11(3) 53	10(4) 64		
'Sunland' syn Sun 155c	9(2) 9	10(4) 57	11(3) 53	10(4) 64		
'Sunstate' syn Sun 148l	6(2) 34	10(4) 57	11(3) 53	10(4) 64		
'Sunvale' syn Sun 146 F	9(2) 9	10(4) 58	11(3) 53	10(4) 64		
'Tammin' syn 81w:1138	8(2) 6	9(4) 54	10(4) 64			
'Tasman' syn Qt4546	6(4) 6	7(4) 24	8(3) 53			
'Tennant'	11(3) 12	12(1) 62	12(4) 101			
'Ure'	9(1) 7			9(3) 73	10(1) 50	
'Westonia'	10(2) 14	11(1) 54	11(4) 54			12(1) 72
'WW2449'	12(4) 15					
'Wylah'	12(4) 15					
'Yanac' syn VF 302	9(2) 10	10(2) 53	11(1) 65	10(1) 50 10(4) 64		
turgidum subsp durum						
'4210.23.6'	12(4) 11					
'Arrivato'	12(4) 11					
'Kronos' syn Do3-21	8(1) 6					
'Tamaroi'	10(4) 11					
'Wollaroi' syn 880096	6(2) 32	9(1) 14	9(4) 55			
Ulmus						
parvifolia						
'Emer I' syn Emerald Isle	10(4) 11					11(1) 66
Urochloa						
mosambicensis						
'Saraji'	10(1) 11	10(1) 41	10(4) 63	10(4) 64		
Verbena						
hybrid						
'Sunmariba' syn Violet Surprise	12(2) 15	12(3) 48				
'Sanmaripi' syn Pink Profusion	9(1) 7	10(3) 40	11(2) 54	10(3) 56 11(2) 56		9(2) 63
'Sunmaririho' syn White Sensation	12(2) 15	12(3) 47				
'Sunmariripi' syn Coral Pink	12(2) 15	12(3) 48				
'Sanmarisu' syn						

	Public Notice	Description	Grant	Varied	Withdrawn/ Surrendered/ Revoked/ Refused	Corrigenda
Scarlet Fire	9(1) 7	10(3) 41	11(2) 54	10(3) 56 11(2) 56		
'Sunmarefu TP-L' syn Lilac Reflections	8(4) 8	10(3) 44		11(2) 56 12(2) 70		
'Suntory TP-L' syn Lilac Reflections†				12(2) 70		
'Sunmarefu TP-P' syn Pink Passion	8(4) 8	10(3) 44		11(2) 56 12(2) 70		
'Suntory TP-P' syn Pink Passion†				12(2) 70		
'Sunmarefu TP-V' syn Purple Passion	8(4) 8	10(3) 44		11(2) 56 12(2) 70		
'Suntory TP-V' syn Purple Passion†				12(2) 70		
'Sunmarefu TP-W' syn White Lightning	8(4) 8	10(3) 45		11(2) 56 12(2) 70		
'Suntory TP-W' syn White Lightning†				12(2) 70		
'Suntory VP-10'†				10(3) 56		
'Suntory VP-13'†				10(3) 56		
Viburnum						
tinus						
'Anvi' syn Spirit	10(3) 9	11(4) 27				
Vicia						
ervilia						
'Cazar'	10(1) 8			11(1) 65		
faba						
'Ascot'	9(1) 5	10(2) 33				
'Barkool'	8(1) 3	10(2) 33	11(1) 63			
'Deep Purple'	11(4) 10					
'Fiesta VF'	10(4) 11	12(2) 28				
'Icarus'	7(1) 5	7(4) 7	8(3) 52			
'Taranto'	9(1) 5	12(1) 26				12(2) 72
narbonensis						
'Tanami'	12(3) 11					
'Morava'	12(1) 11	12(4) 32		12(2) 71		
sativa						
'SCO 5072'	9(1) 7			10(4) 64		
'Vedura'	10(4) 11	11(4) 20				
'Velero'	9(1) 7	11(4) 21		10(4) 64		
'Vestar'	10(4) 11	11(4) 21				
villosa						
'Haymaker Plus'	10(4) 15	11(4) 50				
villosa ssp dasycarpa						
'Capello'	9(1) 7	11(4) 50				
Vigna						
radiata						
'Black Pearl'	7(2) 7	7(3) 43	8(2) 31			
'Emerald' syn 109900	6(1) 27	6(3) 15	7(3) 48			
'Green Diamond' syn HS23	10(2) 12	10(2) 39	11(3) 52			
unguiculata						
'Big Buff' syn 96963	6(1) 28	6(3) 17	7(3) 48			6(2) 35
'Ebony PR' syn Line 4a	9(4) 8	9(4) 25	10(3) 53	10(3) 56		
'Holstein' syn C3-5-1	6(1) 28	6(3) 17	7(3) 48		12(3) 57	

	Public Notice	Description	Grant	Varied	Withdrawn/ Surrendered/ Revoked/ Refused	Corrigenda
Viola						
hederacea						
'White Angel'	6(1) 27				8(4) 51 9(1) 37	9(4) 57
hybrid						
'Major Primrose'					12(4) 102	
Vitis						
vinifera						
'A871'†				12(1) 73		
'B891'†				12(1) 73		
'BW 41/5'	9(1) 5			10(3) 56		
'BW 41/131'	11(1) 8					
'C990'†				12(1) 73		
'Cienna'	10(4) 11	11(3) 48		12(1) 73		
'Cygne Blanc'	10(2) 12	11(2) 51	12(2) 68			11(3) 54
'D1056'†				12(1) 73		
'Gold Seedless'	12(1) 13					
'HBS 17-35' syn Stanley Seedless	9(2) 7			10(3) 56		
'King Husainy' syn Jade Seedless	4(4) 23	9(1) 17	9(4) 55			
'Malian'	12(3) 13					
'Moss' syn Moss Early	1(4) 23	3(4) 5	6(1) 6	3(4) 38		
'Ralli Seedless'	5(4) 34	9(1) 17	9(4) 55			
'Red Rob Seedless' syn BFS 3-37	10(3) 9					
'Ribarits Red Seedless'	11(2) 15					
'Rubienne'	10(4) 11	11(3) 49		12(1) 73		
'SC 16/131'	11(3) 12					
'Shalistin'	10(2) 12					
'Sugrafive'	4(3) 26			10(2) 59		
'Sugraone'	4(3) 26			10(2) 59		
'Tyrian'	10(4) 11	11(3) 49		12(1) 73		
'Vermillion'	10(4) 11	11(3) 49		12(1) 73		
Wahlenbergia						
stricta						
'Bonnie Blue'	9(3) 12				12(1) 73	
Weigela						
'Plangen'	11(1) 9	11(4) 49	12(3) 56			12(4) 103
Xanthostemon						
chrysanthus						
'Tropic Splendor'	5(1) 24	5(1) 24	6(1) 5			
Zoysia						
japonica						
'El Toro'	5(3) 18					

CUMULATIVE INDEX

Cumulative Index for Register of Australian Winter Cereal Cultivars Volumes 11(2) - 12(4)

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GRIFFITH HACK

PATENT AND TRADE MARK ATTORNEYS

For assistance regarding Plant Breeders Rights and Trade Marks, please contact any of the following

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Dr Vivien Santer (Plant Breeders Rights) Ann Makrigiorgos (Trade Marks)	Mr John Terry	Peter Williams	R. Van Wollingen
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For bookings or further information please contact Kathryn Dawes-Read on 02 6272 4228, fax 02 6272 3650 or email Kathryn.Dawes-Read@affa.gov.au

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The Plant Breeder's Rights Advisory Committee (PBRAC) was established under the *Plant Breeder's Rights Act 1994* (PBRA) to provide advice regarding the Act to the Minister of Agriculture Fisheries and Forestry and to the Registrar of the Plant Breeder's Rights Office.

Nominations are invited from interested persons with appropriate qualifications and experience to serve on the PBRAC representing the following sectors:

- breeders, and likely breeders, of new plant varieties
- users, and likely users, of new plant varieties
- consumers, and likely consumers, of new plant varieties or of the products of new plant varieties
- others with appropriate qualifications or experience.

Nominations must include the nominee's full name, address, relevant biographical detail, experience and qualifications with respect to the sector they seek to represent. A letter of support from the sector the person represents should accompany the nomination. Nominees should also include a declaration regarding the absence of any conflict of interest and the propriety of their financial and taxation affairs.

Membership of the PBRAC is not a salaried position. Members' travel expenses are reimbursed and allowances paid at Remuneration Tribunal rates for attendance at meetings, normally held twice annually in Canberra.

Details of the PBRA and of the Plant Breeder's Rights scheme can be found at websites www. austlii.edu.au and www.affa.gov.au/agfor/pbr/pbr.html. Matters relating to the PBRAC are specified under sections 63-67 of the PBRA.

Closing date for nominations is 25 February 2000.

Please address nominations,
marked confidential, to:
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Canberra ACT 2601
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