



# Plant Varieties Journal



# ADVERTISE YOUR NEW VARIETY OR SERVICES IN THE

# Plant Varieties Journal

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

The Journal also has a Service Directory. This Directory is suitable for advertising the services provided by Consultant Qualified Persons, Agents, Patent Attorneys, CTC sites or photographers.

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

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# Plant Varieties Journal

Official Journal of Plant Breeders Rights Australia

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# 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 Website: http://www.affa.gov.au/pbr

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Plant Breeders Rights Australia (PBRA) is an agency within the Commonwealth Department of Agriculture, Fisheries and Forestry – Australia

# **VOLUME 13 NUMBER 4**



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# Part 1 – General Information

# Objections to Applications and Requests for Revocation of a Grant or of a Declaration that a Plant Variety is Essentially Derived from Another Plant Variety

The Plant Breeder's Rights scheme is administered consistent with the model law of *the International Convention for the Protection of New Plant Varieties 1991 (UPOV 91)*, that is, applicants are entitled to protection, in the absence of proof to the contrary.

The Plant Breeder's Rights Office (PBRO) is not required to prove the views, assertions, and opinions of persons challenging protection for plant varieties. Those objecting to/commenting on applications or requesting/commenting on revocation of a grant or declaration that a plant variety is essentially derived from another plant variety must provide conclusive supporting evidence why their objection/comment/request should be upheld. It cannot be stressed too strongly that conclusive argumentation should be provided from the outset.

# **Objections to Applications**

A person may make objections to applications for PBR if (i) their commercial interests would be affected adversely, and (ii) the application will not fulfil all the conditions required by the *Plant Breeder's Rights Act*.

Objections to applications must be lodged with the Registrar no later than six months after the date the description of the variety is published in this journal. The objector must provide evidence of adverse affect on their commercial interests and that the application should not be granted.

The Registrar of the Plant Breeder's Rights Office (PBRO) is required to give a copy of the objection to the applicant. The objection is also available to the general public on request. The applicant has the opportunity to respond to the evidence presented. The Registrar then decides whether or not the objection will be upheld and, subsequently, whether the application will be granted. The PBRO is under no obligation to enter into further dialogue regarding an objection or to communicate reasons why an objection is not upheld. If an objection is upheld it will be notified in this journal.

A payment of \$100 is required on lodgement of the objection. Additional costs of \$75 per hour for work undertaken in relation to the objection will be billed to the objector.

# **Comments on Applications**

The PBRO accepts comments on applications. However, the scheme is managed on normal risk management lines and with an emphasis on the requirement that challengers with a commercial interest must demonstrate conclusively that an application should not be granted.

All written comment will be acknowledged. The PBRO is under no obligation to enter into further communication regarding comments. If an application does not proceed to a grant it will be notified in this journal.

# Requests for Revocation, (where an individual's interests are affected) of:

- a Grant
- a Declaration that a Plant Variety is Essentially Derived

A person may, when their interests are affected adversely, apply for the revocation of:

- a grant of PBR; or
- a declaration that a plant variety is essentially derived from another plant variety.

The person requesting revocation is required to lodge a revocation payment fee of \$500. The person seeking revocation of a grant or declaration that a plant variety is essentially derived from another plant, must provide conclusive evidence of adverse affect on their interests and that the grant should be revoked.

The PBRO also accepts information regarding revocation of grants and declarations of essentially derived plant varieties. Such information must demonstrate conclusively that a grant or declaration should not have been made. All written information will be acknowledged. The PBRO is under no obligation to enter into further communication regarding information provided.

# New Location for Plant Breeders Rights Website

The PBR website has moved to new a location. The current URL is http://www.affa.gov.au/pbr All previous information is retained in this new site. Please visit this site for important information on PBR in Australia, list of protected varieties and all relevant PBR forms. Remember to update the bookmark of your browser with the new PBR address.

# Cumulative Index to Plant Varieties Journal

The editorial committee of *Plant Varieties Journal* has decided that the cumulative index will no longer be published in the journal. However, it will be electronically published as a downloadable document in our new PBR website in the location given above. Instead of publishing the cumulative index once in a year it will be updated on a quarterly basis and our clients will be able to easily download the document into their computers. Electronic copy will make the searching easy in this large document and facilitate the exchange of information as quickly as possible. If you do not have a computer or Internet facilities then we will be able send you a hard copy free of charge. Please contact our office if you require further information.

# Call for Public Comment on the Proposal to Change Australia's Stability Testing Requirement for Some Varieties/Taxa

The New Zealand Plant Breeding and Research Association has proposed that the Australian requirement for testing stability be 'lowered' for the granting of breeder's rights for new plant varieties. It is proposed that, for a trial period of 12 months, Australia receive requests from applicants seeking to waive the requirement that 2 generations of the candidate be included in DUS trials for seed propagated varieties. This proposal would further harmonise breeder's rights procedures between Australia and New Zealand, facilitating investment and technology flows and is entirely consistent with Australia's commitments under the International Convention for the Protection of New Varieties of Plants 1991 (UPOV). One of the effects of adopting the proposal would be that the "granting of a waiver" in respect of a particular variety could be expected to flow on to other contracting parties to UPOV.

Varieties from taxa known to be relatively stable and/or breeding methods that intrinsically produce stable varieties would be considered for exemption from the stability testing on a <u>case by case</u> basis.

Applicants wishing to use this concession would be required to apply to the Australian Plant Breeder's Rights Office at the time the Australian application is lodged, and include argumentation as to why their variety is stable and why further PBR stability testing is unnecessary. Details of the request would be published in the *Plant Varieties Journal* and a 3-month period allowed for public comment.

It is envisaged that the Australian application would be lodged before the trial in New Zealand is designed, thereby avoiding the possibility of extra work if the case made to waive stability testing is not approved. Where stability is not tested, more emphasis would be placed on demonstrating uniformity in all the important Technical Guideline characteristics. This may include, if specified, testing of the candidate over 2 similar growing periods. If the stability of a variety is questioned at any time (for example through the lodgment of an objection or application for revocation) then it is likely that a demonstration of stability would be required or the grant would be revoked.

Comments (both for or against) this proposal should be addressed to:

The Registrar Plant Breeders Rights Office PO Box 858 CANBERRA ACT 2601 Fax (02) 6272 3650

Closing date for comment: 18 May 2001.

# 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

The adopted UPOV Technical Guidelines (TG) for testing different plant species are now available from this website at www.upov.int/eng/document/index.htm

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

# Obligations under the International Convention for the Protection of New Varieties of Plants 1991 (UPOV 91)

Consistent with Australia's membership of UPOV 1991, the criteria for the <u>granting</u> of protection under the *Plant Breeder's Rights Act 1994* (PBRA) is that the variety: has a breeder; is new, distinct, uniform and stable; has an acceptable name; and that application formalities are completed and relevant fees paid.

Applicants for protection need to be aware of the existence of any <u>other</u> Australian legislation, which could impact on their intended use of the registered variety. Relatedly, administrators of other Australian legislation may have an interest in applications for registration notified in this journal.

It is feasible for a new variety to be registered under the PBRA, but, as the PBRA co-exists with other laws of the land, the <u>exercise</u> of the breeder's right may be restricted by such legislation. For example, current legislation may prohibit the use of that variety in food, or, the growing of that variety as a noxious weed.

The Plant Breeder's Rights Office (PBRO) advises that it is the responsibility of the applicant and of administrators of legislation to take these matters up directly between the responsible parties and not with the PBRO.

# Instruction to Authors: Format for Preparing Detailed Description for *Plant Varieties Journal*

A detailed description for the *Plant Varieties Journal* must be prepared under 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 <u>not</u> 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 the descriptions under the above headings with some examples of style and format:

# **Details of the Application**

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

Genus species

Common name of the species **'Variety'** syn **Synonym** (if applicable) Application No: xxxx/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 greenyellow (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**

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** Location: Carrum Downs, VIC (Latitude 38°06' 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	<b>Current Status</b>	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 a <u>single tab mark</u> 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 <u>mandatory</u>.
- 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 <u>not</u> use scores. Please give a <u>word</u> 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 email 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**

# Website Address

The new website address for Australian PBR office is http://www.affa.gov.au/pbr

# **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 the ACRA (currently \$50). Payment of the fee should be sent directly to the ACRA along with the specimen and a completed Herb1 form. This form has recently been updated. The current form Herb 1(03/00) has three components: SUBMISSION OF SPECIMEN OF AUSTRALIAN NATIVE VARIETY TO THE ACRA, ACRA HERBARIUM SPECIMEN and CONFIRMATION OF SUBMISSION OF SPECIMEN TO THE ACRA. Please use the current version of the Herb 1 form for any future submission to the ACRA.

Despite the introduction of GST the herbarium fee for PBR specimens will remain at \$50. To minimise administrative costs it is proposed that applicants continue to send the fee with the specimen, rather than wait for an invoice. So that the applicant does not have to withhold tax, it is necessary to be aware that the ACRA's ABN is 37410355117. A receipted tax invoice will be sent to applicants.

# **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.

When lodging an application we only need **one** copy of the Part 1 and Part 2 form.

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/pbr

Name of Form	Form Number	Last Updated
Application for Plant Breeders Rights	Form P1	September 1998
Part 1 – General Information Guidelines for Completing Part1 Application Form	Part1ins	September 1998
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
Update on the Progress of an Application	Form EXT2	November 2000
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	March 2000

# **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 welcome Ms Nadia Giorgi and Ms Carol Atkinson in the PBR team. Ms Giorgi will work as the Resource Co-ordinator replacing Ms S. (Angie) Kingdom. She has experience in financial and resource management. Ms Atkinson will work as a part-time Administration Officer within the PBR scheme. She has experience in office administration.

# Part 2 – Public Notices

# Varieties Included in this Issue

An index reference for common names with botanical names is published in Appendix 9.

Botanical Name	Variety Name	Pa Num	age ber
Acacia bo	'Olympic Gold'		70
Acacia cog	gnata 'Limelight'		14
Acmena sr	'Hot Flush' <sup>(†)</sup>		65
Agapanthi	<i>us orientalis</i> 'Snow Cloud' syn Summer Pearl		68
Agonis fle.	<i>xuosa nana</i> 'Grace'		11
Alnus joru	<i>llensis</i> 'Royal Cascade' syn Weeping Will	у	70
Alstroeme	<i>ria</i> hybrid		15
	Savannan Stabuwit' sun Amanda		13
	Stabuwit Syll Allanda		70 65
	'Staprimar' () syn Margaret ()		65
	'Staprinal' & syn Margaret		65
	'Stapristef' syn Stefanie		65
Anisodont	ea canensis		05
misodom	'African Prince'		16
Antirrhinu	<i>m</i> hybrid		10
1110001110000	'Yaprim' syn Primrose Vein		17
	'Yarob' syn Rose Pink		17
Arachis hy	vnogaea		
	'Shosh'		70
Aster hybr	rid		
j	'Suncoast'		11
	'Sunsimon'		11
	'Sunspring'		11
Avena sati	iva		
	'Nugene'	18, 68,	71
	'PO 555'		11
	'TAMO 397'		11
Boronia h	eterophylla		
	'Ice Charlotte'		11
Bougainvi	<i>llea</i> hybrid		
	'Arora'		11
	'Bilas'		11
	'Evita'		19
	'Kikori'		11
	'Maudi'		11
	'Ningili'		11
	'Wabag'		11
Bracteant	ha bracteata		
	'Cable Beach'		70
	'Carrawine'		70
	'Colourburst Gold'		20
	'Greta'		70
D	'Margaret Mcarthur'		70
Bracteantl	ha hybrid		
י ת	wanetta Gold		11
Brassica n	apus var oleifera		<i>c</i> -
	40CU1 <sup>2</sup> <sup>(1)</sup>	4.4	65
	BLIN 1999	11,	21
	Purier		65

Botanical	Variety	Page
Name	Name	Number
	'Surpass 402CL'	11
	'Surpass 501TT'	11
	'Surpass 603CL'	11
Capsicum	annuum var fasciculatum	
<i>a</i> .	'Orange Bantam' <sup>(D</sup>	65
Capsicum	annuum var longum	65
C d	Szegedi 80 <sup>°</sup> <sup>(1)</sup> syn Mellow Scarlet <sup>(1)</sup>	65
Ceanothus	gloriosus 'Plue Sepphine'	22
Cologia an	Blue Sapplifie	LL
Celosia ar	'Martine Pink'	60
	'Martine Red'	69
	'Martine Yellow'	69
Coleonem	nulchrum	07
corcontenta	'Mellow Yellow' <sup>(b)</sup>	65
Convolvuli	us sabiatus	00
	'Star Struck'	65
Coprosma	hybrid	
1	'Karo Red'	23
Corymbia	maculata	
	'Imagine' <sup>()</sup>	65
	'Jessica's Jewel'	11
Cucurbita	maxima	
	'EUDLO QHI'	70
Cupressus	glabra	
	'Limesheen'	23
Erysimum	hybrid	
<b>Г</b> 1 (	Pastel Patchwork	24
Eucalyptus	S robusta	(5
Cauna line	The Green and Gold <sup>(1)</sup>	03
Gaura ina	'Blushing Butterflies'	65
	'Crimson Butterflies'	65
	'Sunny Butterflies'	66
Gossyniun	hirsutum	00
Gossyptum	'Sicala V-2RR' <sup>(b</sup>	66
	'Sicala V-3RRi'	11
	'Sicot 189RR' <sup>(b)</sup>	66
	'Sicot 9111'	11
Grevillea b	ıybrid	
	'Coastal Dawn'	25
	'Coastal Sunset'	26
	'Coastal Twilight'	27
~	'Crimson Yul-Lo'	25
Gypsophile	a paniculata	
	Dantesroy	27
	'Dangypflash'	28
	Dangypmini 'Dangyaha' gun Vulsinka	29
II. ah a harba	Dangysna syn fukinko	29
nebe liybi	u 'Beverley Hills'	30
	'Heepie Jeepies'	31
	'Rosie'	70
	'Southern Skies'	70
Hibiscus s	vriacus	
	'Notwoodone' syn Lavender Chiffor	n 71
	'Notwoodtwo' syn White Chiffon	71
Hordeum v	vulgare	
	'Barque'	70
	'Lindwall' <sup>(D</sup>	66
Hosta hybr	rid	
<b></b>	'June' <sup>(I)</sup>	66
Hypericum	androsaeum	<i>c</i> o
	Bosadua $\psi$ syn Dual Fair $\psi$	69
	Dosakin w syn King Pairw	09

Botanical	Variety	Page
Name	Name Num	nber
	'Bosapin' <sup>()</sup> syn Pinky Fair <sup>()</sup>	69
	'Bosaque' <sup>(D</sup> syn Queen Fair <sup>(D</sup>	69
<b>.</b> .	'Bosasca' <sup>(D</sup> syn Scarlet Fair <sup>(D</sup>	69
Impatiens	hybrid	
	Ducimpetred () syn Red Fox Riviera	66
	'Duoribluni' aun Dod Fox Diviore Divo	66
	Night <sup>()</sup>	66
	'Duerior' by Syn Red Fox Orange Riviera	<sup>b</sup> 66
	'Dueripinkeye' <sup>(b)</sup> syn Red Fox Riviera Pi	nk
	Eve <sup>(b)</sup>	66
	'Duerirest' <sup>()</sup> syn Red Fox Riviera Red	
	Star <sup>(b</sup>	66
	'Dueriwhiteye' <sup>()</sup> syn Red Fox Riviera	
	White Eye <sup>(D)</sup>	66
Impatiens	wallerana	1.1
1 4	Golden Delight	11
Isotoma a.	'Sapphire Star'	70
Iuninarus	conferta	70
Jumperus	'Aussie Green N Gold'	70
Koeleria c	eristata	10
	'Barkoel'	70
Lavandula	a angustifolia	
	'Coconut Ice'	12
	'Lavenite Petite'	12
Lavandula	a stoechas	-
T	Bella White	70
Leptosperi	'Devdreem'	71
I olium mi	ltiflorum	/1
Lonum mi	'Robust' <sup>()</sup>	66
Lonicera 1	nitida	00
	'Little Nikki' <sup>()</sup>	66
Lupinus a	lbus	
	'Lago Azzurro'	66
Lupinus a	ngustifolius	
Malan Ja	'Jindalee'	2, 32
matus aon	'Pinova'	12
	'Roda'	12
Mangifera	indica	12
	'Blushing Nam Dok'	12
Medicago	littoralis	
	'FEH-1'	12
Nemesia f	oetens	
0	'Ice Pink'	12
Orniinopu	'Grasslands Spectra'	70
Osteasner	mum ecklonis	70
Osicosper	'Aksinto'	12
	'Aksis'	12
	'Aksullo'	12
	'Bamba'	12
	'Beira'	12
י ז מ	'Pemba'	12
Pelargonii	" <i>um peltatum</i> hybrid " Pennee" our Neelit 2	10
	rennea syn Neallt 2 'Pensyb' syn Red Sybil	12
Pelaraoni	i chsyd syn reu sydn um Xhartarum	12
. c.a. 50ml	'BFP-788 Bright Scarlet' <sup>(†)</sup> svn Designer	
	Bright Scarlet <sup>(b)</sup>	66
	'BFP-838 Dark Red' byn Designer Dar	k
	Red <sup>()</sup>	66
	'Pink Heart' <sup>(D</sup> syn Showcase Pink Heart <sup>(</sup>	<sup>D</sup> 67

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	'Showcase Salmon'	67
	'Starburst Red' <sup>(D</sup>	67
Phaseolus	vulgaris	- 0
<b>D</b> :	Phoenix	70
Pisum sati	vum	(0)
	Baccara (Caples)	69
	(Uplane)	0/ 67
Dittosporu	melella <sup>(e)</sup>	07
1 шозроги	'Cut Above'	33
Prunus do	mestica 🗙 Prunus armeniaca	
	'Flavor Supreme'	71
Prunus per	<i>rsica</i> 'Ivory Princess' syn Ivory White	13
Prunus per	rsica var nucipersica	10
r minis per	'August Pearl' syn August Ice	12
	'Fire Sweet' syn Fire Gold	12
	'Kay Pearl' syn Kay Ice	12
Rosa bank	siae	
	'Powder Puff'	33
Rosa hybri	id	
-	'Ausjo' <sup>(b)</sup> syn Jude the Obscure <sup>(b)</sup>	67
	'Fairy Queen'	35
	'Grandalpha'	70
	'Interkuyl'	35
	'Interlene'	67
	'Internes'	35
	'Intertrogol' syn Sun City	13
	'JACina' <sup>()</sup> syn Wild Dancer <sup>()</sup>	67
	'JACpihi' <sup>()</sup> syn Grand Finale '98 <sup>()</sup>	67
	'JACzor' <sup>()</sup> syn Fame '98 <sup>()</sup>	67
	'JOColber' <sup>()</sup> syn Opening Night <sup>()</sup>	67
	'Lydiver'	35
	'Meibarke' syn Debut Meillandina	71
	'Meibrenec'	40
	'Meicaflon'	41
	'Meidrepil'	41
	'Meinewkan' syn Chin Chin	71
	'Meineyta' syn Anita	71
	'Meivanthou'	13
	'MK II'	70
	'Nirpeter'	38
	'Nirpnufdeu'	67
	'Red Iceberg'	69
	'Ruiconti' <sup>()</sup> syn Yellow Unique <sup>()</sup>	67
	'Ruioran' <sup>(D</sup> syn Orange Unique <sup>(D</sup>	67
	'Smooth Perfume' syn Hadperfume	71
	'Smooth Prince' syn Hadprince	71
	'Sunlampo' syn Bellisima	39
	'Sunluck' <sup>(D</sup>	67
	'Tanaran'	13
	'Tanarua'	13
	Tanedaj'	13
	Tanmixa <sup>(D)</sup> syn Joy of Life <sup>(D)</sup>	67
	Tanotika WEKLI ( ) ( )	· /b /7
	wEKuyksira $\psi$ syn Kose of Narrom 'WEKnlapen' $\phi$ syn Scentimental $\phi$	me <sup>w</sup> 6/
Saccharum	<i>n</i> hybrid	07
Succharan	'O168'	42
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	·0184'	46
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	'Q191'	59
	'Q192'	60
Scabiosa d	columbaria	
	'Samanthas Pink' <sup>(D</sup>	67
Solanum t	uberosum	10
	'Admiral'	13
	'FL 1867'() 'Kanada'	68
	Kuroua 'Maranaa'	13
	'Midas'	13
	'Morene'	71
	'Smith's Stellar'	71
Stenocarp	us sp	, 1
<i>P</i>	'Forest Gem'	13
	'Forest Lace'	13
Sutera con	rdata	
	'Lavender Showers'	68
Syzygium	australe	
	'Elegance' <sup>()</sup>	68
Syzygium	francisii	
<i>a</i> .	'Little Gem'	13
Syzygium	leumannii X Syzygium wilsonii	10
T.I		13
Telopea sp	Senalines?	60
Trifolium	Soliginies @	08
Injonum	'Bolta'	68
	'Frontier'	68 69
Trifolium	pratense	00, 07
11.190111111	'Genband'	13
	'Genstar'	13
	'Genwest'	13
Trifolium	repens	
-	'Trifol Sweet'	13
Trifolium	resupinatum	
	'Lightning' <sup>(D</sup>	68
Trifolium	subterraneum ssp brachycalycinum	60
<b>T</b> • <b>C</b> 1•	'Antas' <sup>(1)</sup>	68
Trifolium	subterraneum ssp subterraneum	(0
Tuitiouu		68
Inncum a	'Babbler'	13
	'Chara'	68
	'Clearfield WHT CSD'	10
	'M5631'	10
	'Mira' <sup>(b)</sup>	68
	'Petrie'	71
	'Thornbill'	14
	'Yanac'	71
<i>Verbena</i> h	ybrid	
	'Vertis'	14
Verticordi	a plumosa hybrid	
×	'GW2'	14
vitis vinife	era 'Maas' ann Maas Earl	71
<b>v</b> Tritiaaaa	woss syn woss Early	/1
<b>AITHICOSE</b>	uue 'Tickit'	62
Zelcova si	prrata	03
	'Kiwi Sunset'	69
		0)

# Acceptances

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

Agonis flexuosa nana Willow Myrtle

# 'Grace'

Application No: 2000/310 Accepted: 14 Nov 2000. Applicant: **Ken Jackson**, Bentley, WA.

# *Aster* hybrid **Easter Daisy**

# 'Suncoast'

Application No: 1999/394 Accepted: 17 Nov 2000. Applicant: **Danziger – 'Dan' Flower Farm**. Agent: **Yates Botanicals Pty Limited**, Somersby, NSW.

# 'Sunsimon'

Application No: 2000/011 Accepted: 17 Nov 2000. Applicant: **Danziger – 'Dan' Flower Farm**. Agent: **Yates Botanicals Pty Limited**, Somersby, NSW.

# 'Sunspring'

Application No: 1999/395 Accepted: 17 Nov 2000. Applicant: **Danziger – 'Dan' Flower Farm**. Agent: **Yates Botanicals Pty Limited**, Somersby, NSW.

Avena sativa Oat

# **'PO 555'**

Application No: 2000/299 Accepted: 6 Nov 2000. Applicant: **NDSU Research Foundation**. Agent: **Pacific Seeds Pty Ltd,** Toowoomba, QLD.

# **'TAMO 397'**

Application No: 2000/298 Accepted: 30 Nov 2000. Applicant: **The Texas A & M University System**. Agent: **Pacific Seeds Pty Ltd,** Toowoomba, QLD.

Boronia heterophylla Red Boronia

# 'Ice Charlotte'

Application No: 2000/334 Accepted: 7 Dec 2000. Applicant: Anthony & Karyn Ward. Agent: Greenhills Propagation Nursery, Tynong, VIC.

# *Bougainvillea* hybrid **Bougainvillea**

# 'Arora'

Application No: 2000/345 Accepted: 20 Dec 2000. Applicant: **Jan and Peter Iredell**, Moggill, QLD.

# 'Bilas'

Application No: 2000/343 Accepted: 20 Dec 2000. Applicant: **Jan and Peter Iredell**, Moggill, QLD.

# 'Kikori'

Application No: 2000/348 Accepted: 20 Dec 2000. Applicant: **Jan and Peter Iredell,** Moggill, QLD.

# 'Maudi'

Application No: 2000/344 Accepted: 20 Dec 2000. Applicant: **Jan and Peter Iredell**, Moggill, QLD.

# 'Ningili'

Application No: 2000/349 Accepted: 20 Dec 2000. Applicant: **Jan and Peter Iredell**, Moggill, QLD.

# 'Wabag'

Application No: 2000/347 Accepted: 20 Dec 2000. Applicant: **Jan and Peter Iredell**, Moggill, QLD.

# *Bracteantha* hybrid **Everlasting Daisy**

# 'Wanetta Gold'

Application No: 2000/309 Accepted: 20 Nov 2000. Applicant: **FD Hockings and OB Hockings**, Maleny, QLD.

Brassica napus var oleifera Canola

# 'BLN 1999'

Application No: 2000/218 Accepted: 14 Nov 2000. 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.

# 'Surpass 402CL'

Application No: 2000/319 Accepted: 17 Nov 2000. Applicant: **Pacific Seeds Pty Ltd**, Toowoomba, QLD.

# 'Surpass 501TT'

Application No: 2000/318 Accepted: 17 Nov 2000. Applicant: **Pacific Seeds Pty Ltd**, Toowoomba, QLD.

# 'Surpass 603CL'

Application No: 2000/320 Accepted: 17 Nov 2000. Applicant: **Pacific Seeds Pty Ltd**, Toowoomba, QLD.

Corymbia maculata Spotted Gum

# 'Jessica's Jewel'

Application No: 2000/325 Accepted: 20 Nov 2000. Applicant: **Mark Andrew Hartley**, Shanes Park, NSW.

Gossypium hirsutum Cotton

# 'Sicala V-3RRi'

Application No: 2000/324 Accepted: 17 Nov 2000. Applicant: **CSIRO Plant Industry**, Narrabri, NSW.

# 'Sicot 9111'

Application No: 2000/323 Accepted: 17 Nov 2000. Applicant: **CSIRO Plant Industry**, Narrabri, NSW.

Impatiens wallerana

# 'Golden Delight'

Application No: 2000/215 Accepted: 7 Nov 2000. Applicant: **John Churchus**, Devon Meadows, VIC.

# Lavandula angustifolia Lavender

# 'Coconut Ice'

Application No: 2000/165 Accepted: 27 Nov 2000. Applicant: Lavenite Enterprises. Agent: Greenhills Propagation Nursery, Tynong, VIC.

# 'Lavenite Petite'

Application No: 2000/166 Accepted: 27 Nov 2000. Applicant: Lavenite Enterprises. Agent: Greenhills Propagation Nursery, Tynong, VIC.

## Lupinus angustifolius Narrow-Leafed Lupin

# 'Jindalee'

Application No: 2000/297 Accepted: 6 Nov 2000. Applicant: Department of Agriculture for and on behalf of the State of New South Wales, Orange, NSW, Grains Research and Development Corporation, Barton, ACT and Minister for Primary Industries and Resources, Adelaide, SA.

# Malus domestica Apple

# 'Pinova'

Application No: 2000/300 Accepted: 20 Nov 2000. Applicant: **GEVO mbH**.

Agent: Fleming's Nurseries and Associates Pty Ltd, Monbulk, VIC.

# 'Roda'

Application No: 2000/328 Accepted: 17 Dec 2000. Applicant: **Rodney Gorden Atherton**. Agent: **Erimus International Pty Ltd**, Applecross, WA.

# Mangifera indica Mango

# 'Blushing Nam Dok'

Application No: 2000/301 Accepted: 30 Nov 2000. Applicant: **Herminia and Jacinto Lay**. Agent: **Dr Vinod Kulkarni,** Darwin, NT.

# Medicago littoralis Strand Medic

# **'FEH-1'**

Application No: 2000/336 Accepted: 17 Dec 2000. Applicant: **Minister for Primary Industries and Resources**, Adelaide, SA.

Nemesia foetens Nemesia

# 'Ice Pink'

Application No: 2000/313 Accepted: 20 Nov 2000. Applicant: **Frank Hammond**, Narre Warren East, VIC.

# Osteospermum ecklonis Cape Daisy

# 'Aksinto'

Application No: 2000/308 Accepted: 27 Nov 2000. Applicant: **Carl Aksel Kragh Sorensen**. Agent: **Koala Blooms Australia**, The Patch, VIC.

# 'Aksis'

Application No: 2000/303 Accepted: 27 Nov 2000. Applicant: **Carl Aksel Kragh Sorensen**. Agent: **Koala Blooms Australia**, The Patch, VIC.

# 'Aksullo'

Application No: 2000/304 Accepted: 27 Nov 2000. Applicant: **Carl Aksel Kragh Sorensen**. Agent: **Koala Blooms Australia**, The Patch, VIC.

# 'Bamba'

Application No: 2000/307 Accepted: 27 Nov 2000. Applicant: **Carl Aksel Kragh Sorensen**. Agent: **Koala Blooms Australia**, The Patch, VIC.

# 'Beira'

Application No: 2000/305 Accepted: 27 Nov 2000. Applicant: **Carl Aksel Kragh Sorensen.** Agent: **Koala Blooms Australia**, The Patch, VIC.

# 'Pemba'

Application No: 2000/306 Accepted: 27 Nov 2000. Applicant: **Carl Aksel Kragh Sorensen**. Agent: **Koala Blooms Australia**, The Patch, VIC.

# Pelargonium peltatum hybrid Ivy Pelargonium

# **'Pennea'** syn **Nealit 2**

Application No: 2000/331 Accepted: 4 Dec 2000. Applicant: Elsner pac Jungpflanzen. Agent: Geranium Cottage Nursery, Round Corner, NSW.

# 'Pensyb' syn Red Sybil

Application No: 2000/332 Accepted: 4 Dec 2000. Applicant: **Elsner pac Jungpflanzen**. Agent: **Geranium Cottage Nursery**, Round Corner, NSW.

Prunus persica var nucipersica Nectarine

# 'August Pearl' syn August Ice

Application No: 2000/268 Accepted: 6 Nov 2000. Applicant: Lowell G Bradford and Norman G Bradford. Agent: Buchanan's Nursery, Tenterfield, NSW.

# 'Fire Sweet' syn Fire Gold

Application No: 2000/269 Accepted: 6 Nov 2000. Applicant: **Lowell G Bradford and Norman G Bradford**. Agent: **Buchanan's Nursery**, Tenterfield, NSW.

# 'Kay Pearl' syn Kay Ice

Application No: 2000/271 Accepted: 6 Nov 2000. Applicant: **Lowell G Bradford and Norman G Bradford**. Agent: **Buchanan's Nursery**, Tenterfield, NSW.

# Prunus persica Peach

# 'Ivory Princess' syn Ivory White

Application No: 2000/270 Accepted: 6 Nov 2000. Applicant: Lowell G Bradford and Norman G Bradford. Agent: Buchanan's Nursery, Tenterfield, NSW.

*Rosa* hybrid **Rose** 

# 'Intertrogol' syn Sun City

Application No: 2000/337 Accepted: 8 Dec 2000. Applicant: **Interplant B.V.** Agent: **Grandiflora Nurseries Pty Ltd,** Cranbourne, VIC.

# 'Meivanthou'

Application No: 2000/212 Accepted: 27 Nov 2000. Applicant: **Meilland Star Rose**. Agent: **Selection Meilland Australia**, Rosevears, TAS.

# 'Tanaran'

Application No: 2000/293 Accepted: 20 Nov 2000. Applicant: Rosen Tantau, Mathias Tantau Nachfolger. Agent: Sovereign Nurseries Pty Ltd, Catherine Field, NSW.

# 'Tanarua'

Application No: 2000/294 Accepted: 20 Nov 2000. Applicant: Rosen Tantau, Mathias Tantau Nachfolger. Agent: Sovereign Nurseries Pty Ltd, Catherine Field, NSW.

# 'Tanedaj'

Application No: 2000/295 Accepted: 20 Nov 2000. Applicant: Rosen Tantau, Mathias Tantau Nachfolger. Agent: Sovereign Nurseries Pty Ltd, Catherine Field, NSW.

# 'Tanotika'

Application No: 2000/296 Accepted: 14 Nov 2000. Applicant: Rosen Tantau, Mathias Tantau Nachfolger. Agent: Sovereign Nurseries Pty Ltd, Catherine Field, NSW.

Solanum tuberosum Potato

# 'Admiral'

Application No: 2000/291 Accepted: 7 Nov 2000. Applicant: **Cygnet Potato Breeders Ltd**. Agent: **Wrightson Seeds (Aust) Pty Ltd,** Laverton, VIC.

# 'Kuroda'

Application No: 1999/368 Accepted: 20 Dec 2000. Applicant: **Agrico**. Agent: **Technico Pty Ltd**, Moss Vale, NSW.

# 'Maranca'

Application No: 2000/060 Accepted: 20 Dec 2000. Applicant: **Agrico**. Agent: **Technico Pty Ltd**, Moss Vale, NSW.

# 'Midas'

Application No: 2000/292 Accepted: 7 Nov 2000.

Applicant: Cygnet Potato Breeders Ltd. Agent: Wrightson Seeds (Aust) Pty Ltd, Laverton, VIC.

*Stenocarpus* sp (Hinchinbrook Is. FD Hockings AQ229860)

**Tully River Stenocarpus** 

# 'Forest Gem'

Application No: 2000/322 Accepted: 30 Nov 2000. Applicant: **Yuruga Nursery Pty Ltd**, Walkamin, QLD.

# 'Forest Lace'

Application No: 2000/321 Accepted: 30 Nov 2000. Applicant: **Yuruga Nursery Pty Ltd**, Walkamin, QLD.

Syzygium leumannii x Syzygium wilsonii Lilly Pilly

# 'Cascade'

Application No: 2000/302 Accepted: 20 Nov 2000. Applicant: **Russell and Sharon Costin**, Limpinwood, NSW.

Syzygium francisii Giant Water Gum

# 'Little Gem'

Application No: 2000/326 Accepted: 27 Nov 2000. Applicant: **Russell and Sharon Costin**, Limpinwood, NSW.

Trifolium pratense Red Clover

# 'Genband'

Application No: 2000/197 Accepted: 30 Nov 2000. Applicant: **University of Western Australia**, Nedlands, WA.

# 'Genstar'

Application No: 2000/196 Accepted: 30 Nov 2000. Applicant: **University of Western Australia**, Nedlands, WA.

# 'Genwest'

Application No: 2000/198 Accepted: 30 Nov 2000. Applicant: **University of Western Australia**, Nedlands, WA.

*Trifolium repens* White Clover

# 'Trifol Sweet'

Application No: 2000/122 Accepted: 7 Nov 2000. Applicant: **Belair Technology Pty Ltd**, Belair, SA.

Triticum aestivum Wheat

# 'Babbler'

Application No: 2000/143 Accepted: 6 Nov 2000. 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.

# 'M5631'

Application No: 2000/141 Accepted: 6 Nov 2000.

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.

# 'Thornbill'

Application No: 2000/142 Accepted: 6 Nov 2000. 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.

*Verbena* hybrid **Verbena** 

# 'Vertis'

Application No: 2000/228 Accepted: 27 Nov 2000. Applicant: **Novartis Seeds B.V.** Agent: **Ramm Pty Ltd,** Picton, NSW.

*Verticordia plumosa* hybrid **Feather Flowers** 

# 'GW2'

Application No: 2000/329 Accepted: 8 Dec 2000.

Applicant: West Australian Wax Farm, Post Office Floreat Forum, WA.

# **Variety 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	
Hyphened	=	A hyphen (-) between two different	
colours		colours (eg. greyed-green) designates an	
		intermediate colour between those two	
		colours, where possible the RHS colour	
		chart reference is also given.	
LSD	=	Least Significant Difference	
LSD/sig	=	The numerical value for the LSD (at	
		$P \le 0.01$ ) 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). The year following RHS	
		indicates the edition.	
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	
щ		of a different sequence	
#	=	values followed by the same letter are not	
Origin	_	Significantly different at PS0.01	
Origin	=	of the cross precedes the male parent	
SNK test	_	Student Newman Keuls test	
	_	Variety(s) for which DPD has been	
	-	granted	

#### Acacia cognata Bower Wattle

# 'Limelight'

Application No: 2000/034 Accepted: 24 Feb 2000. Applicant: **Phillip Dowling**, Native Plant Wholesalers Pty Ltd, Mt Gambier, SA. Agent: **Gail Barth**, Oakbank, SA.

**Characteristics** (Table 1, Figure 30) Plant: dwarf, bushy dense shrub, 1m x 1m with pendulous lime green foliage and mounding habit. Stem: many prostrate to arching stems supporting willowy branchlets. Foliage: narrow linear phyllodes, with indistinct venation and slightly acuminate apices, thin, average size 50 x 1.7mm, predominant colour green (RHS 143C) with lime-green (144B-C) highlights. (Note: all RHS colour chart numbers refer to 1995 edition.)

Origin and Breeding Open pollination followed by seedling selection: high numbers of seedling Acacia cognata are regularly grown from purchased seed each year at applicant's nursery and observed for variations. 'Limelight' was selected as a distinct variant from one batch of over 300 seedlings grown in Oct 1997. Selection criteria: dwarfness, tight mounding habit and attractive lime green colouration on new growth. This seedling was also distinctly smaller in habit and leaf form and lighter in colouration from other known dwarf cultivars of Acacia cognata. Propagation: by vegetative cuttings from the selected seedling followed by establishment of stock plants over several generations which were found to be uniform and stable. 'Limelight' is commercially propagated by vegetative cuttings taken from containerised stock plants. Breeder: Phillip Dowling, Native Plant Wholesalers Pty Ltd, Mt Gambier, SA.

**Choice of Comparators** Two other dwarf varieties of *Acacia cognata* ('Green Mist' and 'Mop Top') were chosen as comparator varieties. *Acacia cognata* seedlings were originally considered for the comparative trial but were rejected because the height, internode lengths and growth rates were so much greater than the dwarf varieties.

Comparative Trial Location: Native Plant Wholesalers, Mt Gambier West, SA, Jun-Oct 2000. Conditions: cuttings were taken in Dec 1999 from stock plants of the three varieties and rooted under mist followed by potting into 75 mm tubes. At the start of the trial, 12 plants from each variety were potted on into 140 mm pots in pinebark/sand media, individually labelled and height and width measurements taken. Plants were grown in a polyhouse tunnel and nutrition was maintained with controlled-release fertilisers, pest and disease treatments applied as required. Trial design: twelve pots of each variety arranged in a completely randomised design and re-randomised after 3 months of growth. Measurements: data was taken and analysed on all plants (one sample per plant) with the exception of internode length, which was taken from 10 plants at random.

# **Prior Applications and Sales**

First sold in Australia in 2000.

Description: Gail Barth, Oakbank, SA.

# Table 1 Acacia varieties

	'Limelight'	*'Green Mist'*'Mop Top'				
PLANT HEIGHT (cm)						
mean	9.59	12.30	23.68			
std deviation	1.22	1.12	2.62			
LSD/sig	6.2	ns	P≤0.01			
PLANT SIZE	height x width (	(cm <sup>2</sup> )				
mean	190.8	291.3	647.5			
std deviation	25.4	29.9	100.2			
LSD/sig	69.32	P≤0.01	P≤0.01			
LEAF WIDTH	(mm)					
mean	1.69	2.32	4.20			
std deviation	0.0865	0.2103	0.4508			
LSD/sig	0.36	P≤0.01	P≤0.01			

LEAF LENGT	H (mm)		
mean	54.1	75.3	70.8
std deviation	6.85	7.39	15.44
LSD/sig	13.19	P≤0.01	P≤0.01
INTERNODE I	LENGTH (mm	ı)	
mean	7.23	6.87	8.93
std deviation	0.20	0.64	1.31
LSD/sig	1.55	ns	P≤0.01
FOLIAGE COI	LOUR (RHS, 1	995)	
	green	medium	medium dark
		green	green
	143C	141A	137B
NEW GROWT	H COLOUR (	RHS, 1995)	
	lime green	green	maroon
	144 B-C	141C	59A

# Alstroemeria hybrid Alstroemeria, Peruvian Lily

# 'Savannah'

Application No: 1999/350 Accepted: 17 Dec 1999. Applicant: **Ivan Novosel**, Lenswood, SA. Agent: **Scholefield Robinson Horticultural Services**, Adelaide, SA.

**Characteristics** (Table 2, Figure 11) Plant: stem length long, stem thickness thick, density of foliage medium dense. Leaf: shape ovate, longitudinal axis of blade recurved, length long, width medium. Inflorescence: umbel branch number medium, length long, pedicel length long. Flower: apricot pink, size medium, tepal spread medium, outer tepal shape round to obovate, depth of emargination medium, stripes absent, pink at margins RHS 64D and medium pink at tip RHS 64AB, inner tepals shape obovate, yellow RHS 9B with pink tip RHS 62A, stripe number medium, stripe size medium to large. Stamens: filament pink, spots absent, anther brownish. Pistil: ovary anthocyanin weak, stigma spots absent. All RHS colours are from 1995 edition.

**Origin and Breeding** Controlled pollination: Seed parent a seedling of *Alstroemeria aura* (Breeder's code AYKR/197), pollen parent (Breeder's code EXAL/25696) selected from a hybrid breeding line maintained by the applicant at One Tree Hill and later at Lenswood. The seed parent was characterised by yellow (RHS 14A) flowers with green (RHS 135D) tips on the outer tepals and strong anthocyanin colouration of the ovary. The pollen parent was characterised by white (RHS 155B) flowers with green (RHS 135D) tips on the outer tepals. Inner tepals were yellow (RHS 9A) with white (RHS 155B) tips. Selection criteria: 'Savannah' was selected on the basis of flower colour, growth habit and potential for all year round production in a southern Australian environment. Propagation: The variety will be commercially propagated by tissue culture. Breeder: Ivan Novosel, Lenswood, SA.

**Choice of Comparators** Comparators: 'Victoria'<sup>(b)</sup>, 'Saba' and 'Minas' were chosen on the basis of flower colour. No other similar varieties of common knowledge have been identified.

**Comparative Trial** Location: Lobethal, SA, winter/spring 2000. Conditions: trial conducted in a glasshouse, plants propagated by division and grown in the soil, Trial design: Planting was in 8 'single plant' plots of each variety in a randomised complete block design and included the candidate, comparators and parent plants. Measurements: For the flower descriptions approximately 30 stems of each variety were held in water for a few hours then examined.

# Prior Applications and Sales Nil.

Description: Ben Robinson and Daniel Smith, Scholefield Robinson Horticultural Services Pty Ltd, Adelaide, SA.

# Table 2 Alstroemeria varieties

	'Savannah'	*'Victoria'¢	)*'Saba'	*'Minas'
LEAF width shape of blad	medium	narrow	medium	medium
<b>F</b>	ovate	elliptical	ovate	ovate
INFLORESC	ENCE			
no. of branch	es on umbel			
	medium	medium	few – medium	medium
length of brai	nches			
	long	long	long	medium
length of ped	icel			
	long	long	medium	medium
FLOWER				
main Colour	apricot pink	orange red	purple pink	yellow
size	medium	medium	large	medium
spread of tepa	als			
	medium	medium	large	medium
OUTER TEP.	AL			
shape of blad	e			
	round-	obovate	broad	round-
1 (1 (	obovate		obovate	obovate
depth of emai	rgination	madium	madium	aballarr
main colour (	f blade	meanum	mealum	snanow
mani colour (	pink 64D	orange 30C	purple 73B	yellow 17A
	margin	centre		
	pink 64AB tips	orange30A edge	centre	pink 55B tip
		green 139B	pink 73A	
		tip	margin	stripes
INNER TEPA	AL			
shape of blad	e			
	obovate	narrow obovate	obovate	obovate
main colour o	of inner side o	of blade		
	yellow 9B	yellow 14A	yellow 9A	yellow 23A
	pink tip 62A	orange tip 33B	purple tip 63AB	
number of str	ipes on inner	side of blade	e	
	medium	medium	medium	medium- many
stripe size on	inner side of	blade		
	med-large	small- medium	large	medium- large

# STAMENS

r	nain colour o	of filaments pink	pale orange red	pink/purple	light purple
С	olour of anth	ners			
		brownish	brownish	purplish	brownish
Ē	PISTIL nthocyanin c	colour of ova			
		weak	strong	medium	medium

Anisodontea capensis Anisodontea

# **'African Prince'**

Application No: 2000/018 Accepted: 5 Mar 2000. Applicant: **Plant Growers Australia**, Wonga Park, VIC.

**Characteristics** (Table 3, Figure 17) Plant: habit upright, dense. Stem: internode short (mean 19.05mm). Leaf: length mean 33.54mm, width 30.03mm, shape of apex of lobe pointed, depth of sinus of margin deep. Flower: axilary mostly in clusters, diameter small (mean 31.70mm), petal colour of margin zone red-pruple 72C, colour of eye zone and venation red-purple 60A. (Note: All RHS colour chart numbers refer to 1995 edition.)

**Origin and Breeding** Open pollination followed by seedling selection: parent *Anisodontea capensis*. The parental plant is characterised by its spreading growth habit. Seed were collected and grown for evaluation. Seedling selection took place in Wonga Park VIC, in 1996. Selection criteria: 'African Prince' was chosen in 1997 on the basis of flower colour and compact habit. Propagation: a number mature stock plants were generated from this seedling through 2 generations by cutting propagation and were found to be uniform and stable. 'African Prince' will be commercially propagated by vegetative cuttings from the stock plants. Breeder: Howard Bentley, Wonga Park, VIC.

**Choice of Comparator** 'African Princess' was chosen because it is the closest known variety in cultivation. The parental variety was not considered for its spreading growth habit as stated above. No other similar varieties of common knowledge have been identified.

**Comparative Trial** Location: Park Orchards, VIC, autumnspring 2000. Conditions: trial conducted in pots, plants propagated from cutting, rooted cuttings planted into 150mm 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 twenty plants at random. One sample per plant.

# Prior Applications and Sales Nil.

Description: Mark Lunghusen, Croydon, VIC.

# Table 3 Anisodontea varieties

	'African Prince'	*'African Princess'
PLANT HABIT		
	dense	sparse
	upright	spreading
FLOWER DIAMET	'ER (mm)	
mean	31.70	37.00
std deviation	2.11	1.63
LSD/sig.	2.63	P≤0.01
FLOWER PETAL C	COLOUR (RHS, 1995)	
outer	red-purple	purple
	72C	75A
NUMBER OF FLO	WERS PER LEAF AXIS	
	1-3	1

Snapdragon

# 'Yaprim' syn Primrose Vein

Application No: 1999/276 Accepted: 26 Jul 2000. Applicant: **A T Yates & Son**, Congleton, UK. Agent: **Plant Growers Australia**, Wonga Park, VIC.

**Characteristics** (Table 4, Figure 18) Plant: habit spreading. Leaf: long length (mean 25.70mm), width wide (mean 17.42mm), shape of blade obovate, shape of tip acute, shape of base cuneate, pubesence medium. Flowers: axillary, petal man colour of upper petals white 155B, colour of vein redpurple 70A, venation colour intense, large central flower spot, main colour of lower petals yellow-green 150D. (Note: All RHS colour chart numbers refer to 1995 edition.)

**Origin and Breeding** Controlled pollination: parents *Antirrhinum hispanicum* x *A. molle* and *A. majus*. Hybridisation took place in England in 1993-1994. From this cross, 'Yaprim' was chosen in 1995 on the basis of flower colour and habit. Selection criteria: Flower colour and form. Propagation: at least 10 generations of vegetative propagation have been done and were found to be uniform and stable. Breeder AT Yates and Son, UK.

**Choice of Comparators** 'Avalanche' was chosen because it is the closest known variety propagated by cuttings. No other similar varieties of common knowledge have been identified.

**Comparative Trial** Location: Park Orchards, VIC, autumnspring 2000. Conditions: trial conducted in pots, plants propagated from cutting, rooted cuttings planted into 150mm pots filled 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 twenty plants at random. One sample per plant.

<b>Prior Applicati</b>	ions and	Sales	
Country	Year	Current Status	Name Applied
EU	1996	Granted	'Yaprim'

Japan	1997	Applied	'Yaprim'
New Zealand	1998	Applied	'Yaprim'

First sold in UK in Sep 1996

Description: Mark Lunghusen, Croydon, VIC.

# Table 4 Antirrhinum varieties

	'Yaprim'	*'Avalanche'
LEAF: LENGTH (mm)		
mean	25.70	16.95
std deviation	2.99	1.64
LSD/sig	3.18	P≤0.01
LEAF: WIDTH (mm)		
mean	17.42	14.69
std deviation	1.91	1.64
LSD/sig	2.8	ns
LEAF: SHAPE OF BLA	DE	
	obovate	ovate-orbicular
LEAF: SHAPE OF TIP		
	acute	obtuse
LEAF: SHAPE OF BAS	E	
	cuneate	obtuse
LEAF: PUBESENCE		
	medium	strong
PETAL: MAIN COLOU	R OF UPPER PETA	LS (RHS)
	white	white
	155B	155C
VEIN: INTENSITY OF	COLOURATION	
	strong	weak
CENTRAL FLOWER S	POT: SIZE	
	large	small
PETAL: MAIN COLOU	R OF LOWER PETA	ALS (RHS)
	yellow-green	white
	150D	155C

# 'Yarob' syn Rose Pink

Application No: 1999/275 Accepted: 26 Jul 2000. Applicant: **AT Yates & Son**, Congleton, UK. Agent: **Plant Growers Australia**, Wonga Park, VIC.

**Characteristics** (Table 5, Figure 19) Plant: habit spreading. Leaf: long length (mean 33.56mm), width wide (mean 18.96mm), shape of blade obovate, shape of tip acute, shape of base cuneate, pubesence medium. Flowers: axillary, petal colour red-purple 71B, colour of central flower spot yellow 13A. (Note: All RHS colour chart numbers refer to 1995 edition.)

**Origin and Breeding** Controlled pollination: parents *Antirrhinum hispanicum* x *A. molle* and *A. majus*. Hybridisation took place in England in 1993-1994. From this cross, 'Yarob' was chosen in 1995 on the basis of flower colour and habit. Selection criteria: flower colour and form.

Propagation: at least 10 generations of vegetative propagation have been done and were found to be uniform and stable. Breeder: AT Yates and Son, UK.

**Choice of Comparators** *Antirrhinum hispanicum* roseum was chosen because it is the closest known variety propagated by cuttings. No other similar varieties of common knowledge have been identified.

**Comparative Trial** Location: Park Orchards, VIC, autumnspring 2000. Conditions: trial conducted in pots, plants propagated from cutting, rooted cuttings planted into 150mm pots filled 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 twenty plants at random. One sample per plant.

#### **Prior Applications and Sales**

Country	Year	<b>Current Status</b>	Name Applied
EU	1996	Granted	'Yarob'
Japan	1997	Applied	'Yarob'
New Zealand	1998	Applied	'Yarob'

First sold in UK in Sep 1996.

Description: Mark Lunghusen, Croydon, VIC.

# Table 5 Antirrhinum varieties

	'Yarob'	* A. hispanicum roseum
LEAF: LENGTH (r	nm)	
mean	33.56	21.70
std deviation	3.29	1.82
LSD/sig	3.78	P≤0.01
LEAF: WIDTH (mi	m)	
mean	18.96	14.87
std deviation	2.14	1.88
LSD/sig	3.19	P≤0.01
LEAF: SHAPE		
	obovate	ovate-orbicular
LEAF: SHAPE OF	BASE	
	cuneate	obtuse
PETAL: COLOUR	(RHS)	
	red-purple	
	71B	75A
COLOUR OF CEN	TRAL FLOWER SPO	OT (RHS)
	yellow	yellow
	13A	2D

# Avena sativa Oat

# 'Nugene'

Application No: 1998/259 Accepted: 16 Mar 1999. Applicant: **NDSU Research Foundation**, Fargo, North Dakota, USA.

Agent: The State of Queensland through its Department of Primary Industries, Brisbane, QLD.

**Characteristics** (Table 6, Figure 45) Plant: tall spring forage oat, early growth habit erect, maturity late when planted in May. Stem: straw strength strong, uppermost node hairiness medium. Leaf: sheath hairiness medium, blade width medium glabrous. Panicle: branches equilateral semi-erect. Spikelet: pendulous glume length medium. Primary grain: basal hairs absent, lemma colour red-brown, lemma awn absent, rachilla long retained on primary grain. Disease resistance: possesses 'Pc68' gene resistant to almost all Australian pathotypes of *Puccinia coronata* (leaf rust).

Origin and Breeding Controlled pollination: seed parent ND881673 (R805065-5/ 'Dumont') x pollen parent ND880909 (ND830775/'Dumont'). The seed parent was characterised by a very resistant reaction in adult plants in the field to leaf rust with virulence to Pc-38 and Pc-39 that are present in 'Dumont'. The resistance in ND881673 is derived from R805065-5, which was derived from 'Amagalon' germplasm. The pollen parent was also characterised by a highly resistant adult plant reaction to leaf rust races that are virulent on Pc-38 and Pc-39. It also shows a fleck seedling reaction to races virulent on Pc-38, Pc-39 and Pc-91. The candidate has good grain and forage yield and is resistant to most pathotypes of leaf rust in Australia. Hybridisation took place at North Dakota State University, USA in 1993. From this cross, seedling number S3736 was chosen in 1995 on the basis of flowering time. Selection criteria: leaf rust resistance and early flowering. Propagation: by seed. Breeder: Dr Michael McMullen, Fargo, North Dakota, USA.

**Choice of Comparators** Comparators: 'Amagalon', 'Gwydir'<sup>(D)</sup>, 'AC Medallion'<sup>(D)</sup> syn 'Moola'<sup>(D)</sup>, and 'Warrego'<sup>(D)</sup>. 'Amagalon' was chosen because it is the original source material from which the rust resistant gene in Nugene variety was selected. 'Gwydir'<sup>(D)</sup> and 'AC Medallion'<sup>(D)</sup> syn Moola<sup>(D)</sup> were selected for their similarity with 'Nugene'.

**Comparative Trial** Location: Hermitage Research Station, Warwick QLD. Sown 11 Jun 1999. Conditions: plants were raised in well-fertilised soil in open beds. Trial design: plants arranged in randomised complete blocks with three replications. Measurements: taken from 10 random plants per replicate chosen from approximately 150 plants.

#### Prior Applications and Sales Nil.

Description: John Rose, Warwick, QLD.

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	'Nugene'	*'Amagalon'	*'Gwydir'@	* <b>'AC Medallion'</b> @ syn <b>Moola</b> @	*'Warrego' <sup>©</sup>
PLANT HEIGHT (c	m)				
mean	147.3	164.2	123.3	147.4	119.7
std deviation	5.7	10.4	7.8	9.2	8.9
LSD/sig	3.65	P≤0.01	P≤0.01	ns	P≤0.01
FLAG LEAF LENG	TH (mm)				
mean	208.5	221.3	131.8	194.8	199.4
std deviation	32.26	29.17	26.61	29.94	28.47
LSD/sig	21.76	ns	P≤0.01	ns	ns
FLAG LEAF WIDT	H (mm)				
mean	12.68	15.03	10.27	16.93	16.97
std deviation	2.51	1.52	1.62	1.53	1.82
LSD/sig	1.66	P≤0.01	P≤0.01	P≤0.01	P≤0.01
DAYS TO PANICLE	E EMERGENCE				
mean	114.7	118.5	115.6	116.4	110.6
std deviation	2.51	2.84	2.08	1.26	2.25
LSD/sig	1.02	P≤0.01	ns	P≤0.01	P≤0.01
PEDUNCLE LENG	TH (cm)				
mean	41.3	44.2	33.6	40.7	33.8
std deviation	4.70	7.38	3.70	4.37	3.21
LSD/sig	2.99	ns	P≤0.01	ns	P≤0.01
PANICLE LENGTH	I (cm)				
mean	27.6	36.7	21.0	29.1	26.3
std deviation	2.58	3.22	2.96	1.90	2.22
LSD/sig	1.64	P≤0.01	P≤0.01	ns	ns
HAIRINESS OF LO	WER LEAF SHEAT	Н			
	medium	medium	absent	medium	absent
HAIRINESS OF TO	P NODE				
	present	present	absent	present	absent
LEMMA AWN					
	absent	few	absent	absent	absent
BASAL HAIRS ON	GRAIN				
	absent	absent	present	present	absent
RACHILLA ATTAC	HMENT				
	primary	primary	primary	primary	secondary

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# Table 6 Avena varieties

# *Bougainvillea* hybrid **Bougainvillea**

# 'Evita'

Application No: 1999/242 Accepted: 31 Jan 2000.

Applicant: **Rybay Pty Ltd trading as Sunset Nursery**, Silverdale, NSW.

Agent: **The University of Sydney**, Plant Breeding Institute, Cobbitty, NSW.

**Characteristics** (Table 7, Figure 12) Plant: small to medium shrubby vine with a compact (dwarf) bushy habit. Leaves: simple, ovate variable in size with a sinuate margin and an acute apex. The leaves show a tricolour variegation

with margin being yellow (RHS 8C), centre being yellow/green (RHS 147 A) and a third pigmentation appearing as flecks, being yellow/green (RHS 148 B). Immature and mature bracts: purple red (RHS 80 C-D). (Note: all RHS colour chart numbers refer to 1995 edition.)

**Origin and Breeding** Spontaneous mutation: from *Bougainvillea* 'Purity'. 'Purity' is a public cultivar charcterised by its white mature bract colour. Selection crieria: 'Evita' was selected for its unique bract colour. Propagation: vegetative propagation of the selection was carried out to test the performance of the selection and establish the stability of the variety. This variety has shown stability over five generations and approximately 350 plants. Breeder: J. de Aquino, Sunset Nursery, Silverdale, NSW.

**Choice of Comparator** *Bougainvillea* 'Miski'<sup>()</sup> was considered the most similar variety of common knowledge. *Bougainvillea* 'Miski'<sup>()</sup> has similar leaf colours but differs in the bract colour and a pinkish pigmentation of the young variegated leaves. *Bougainvillea* 'Purity' was considered because it is the source material and very closely matches the overall plant habit but shows differences in the bract colour. A third unnamed variety was considered but not available commercially or in numbers. It is also a sport from 'Purity' and a single plant made available showed it to be much later to flower.

**Comparative Trial** Location: Sunset Nursery, Eltons Road, Silverdale, NSW (Latitude 33°55', longitude 150°36', elevation 75m), between Nov 1999-Dec 2000. Conditions: plants were grown in containers in a plastic covered tunnel house. Trial design: the trial contained a block of approximately 30 plants of *Bougainvillea* 'Evita' and ten to fifteen of each comparator. The trial design was to compare the difference in habit and bract colour between the variety and its comparators. Measurements: from 10 plants at random. One sample per plant.

# Prior Applications and Sales Nil.

Description: Gerhard Stenner, PBI Cobbity, NSW.

Table 7 Bougainvillea varieties

	'Evita'	*'Purity'	*'Miski'¢
LEAF COLOU	R (RHS, 1995).	, marginal	
	yellow	yellow	yellow
	8 C	10 C-D	10 B-C
LEAF COLOU	R (RHS, 1995),	, centre	
	yellow/green	yellow/green	yellow/green
	147 A	147 B	147 A-B
LEAF COLOU	R (RHS, 1995).	, fleck	
	yellow/green	yellow/green	yellow/green
	148 B	148 D	148 C-D
IMMATURE B	RACT COLOU	VR (RHS, 1995	)
	purple/violet	white	grey/orange
	80 C-D	155 D	169 C
MATURE BRA	CT COLOUR	(RHS, 1995)	
	purple/violet	white	orange/red
	80 C-D	155 D	55 A

Bracteantha bracteata Everlasting Daisy

# 'Colourburst Gold'

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

**Characteristics** (Table 8, Figure 13) Plant: multi-branching upright herbaceous perennial growing up to 320mm. Leaves: narrow elliptic to lanceolate, colour yellow green (RHS 144A), average size 140.4mm x 15.1mm. Inflorescence: capitulum (head) consisting of disc florets surrounded by papery bracts, open disc florets colour yellow orange (RHS 23A), surrounding bracts are in several rows with the outer, bud colour orange red (RHS 34A), open bract colour yellow orange (RHS 21A) at the tips changing to yellow (RHS 9A) towards the centre, average open flower head diameter 45.3mm.

(Note: all RHS colour chart numbers refer to 1995 edition.)

Origin and Breeding Controlled pollination: Bracteantha 'Colourburst Gold' is a selection from a controlled cross carried out at the Plant Breeding Institute, Cobbitty, NSW during 1996 between Bracteantha x95.5.1 (seed parent) and Bracteantha 'White Monarch' (pollen parent). The seed parent is a herbaceous perennial selected for is compact habit and heavy flowering. The pollen parent is a herbaceous perennial with greyish leaves and large white flowers. 'White Monarch' is a public cultivar and the seed parent is a breeding line. Selection criteria: 'Colourburst Gold' was selected primarily for the golden flower colour, but habit and performance under cultivation were also criteria Propagation: vegetative propagation of the selection was carried out to test the performance of the selection and establish the stability of the variety. Using both cuttings and tissue culture the variety has been stable over several generations. Breeder: P G Abell, Plant Breeding Institute, Cobbitty, NSW.

**Choice of Comparators** *Bracteantha* 'Colourburst Pink', *Bracteantha* 'Gold n Bronze' were considered the most similar varieties of common knowledge. *Bracteantha* 'Coolgardie Gold' (previously known as 'Kalgoorlie Gold') is similar but it has lighter coloured flowers lacking the orange tones in the bud and smaller leaves. No other variety was considered to as closely match the strong flower colour and plant habit of 'Colourburst Gold'. The parents were not considered as comparators due to the white flower and grey foliage of one and the strongly orange flowers and annual nature of the breeding line.

**Comparative Trial** Location: Yellow Rock Native, Nursery, Winmalee, NSW, Jan – May 2000. Conditions: vegetatively produced plants were grown in 250mm pots in a well drained media containing composted pine bark fines and sand. The media contained coated slow release fertiliser, dolomite plus trace elements, there was a single application of liquid fertiliser two weeks after potting, irrigation by overhead sprinkler. The environment used was open benched with dappled shade from trees. Trial design: 12 plants each of *Bracteantha* 'Colourburst Gold', 'Colourburst Pink' and 'Gold n Bronze' placed in rows to allow them to develop normally without shading from others. Measurments: from 10 plants at random. Once sample per plant.

# Prior Applications and Sales Nil.

Description: Peter Abell, PBI Cobbitty, NSW.

# Table 8 Bracteantha varieties

	'Colourbu	'Colourburst *'Colourburst*'Golden		
	Gold'	Pink' <sup>®</sup>	Bronze	
BUD BRACT	COLOUR (F	RHS, 1995)		
	34A	187D	167D	
OPEN BRAC	Γ COLOUR (	(RHS, 1995)		
Tips	21A	63C	21A	
Centre	9A	63C	12A	
LEAF COLOU	JR (RHS, 19	95)		
	144A	144A	137A	
LEAF LENGT	TH (mm)			
mean	140.4	134.5	79.4	
std deviation	13.43	17.09	10.42	
LSD/sig	17.9	ns	P≤0.01	
LEAF WIDTH	I (mm)			
mean	15.1	14.8	4.9	
std deviation	1.91	2.34	0.98	
LSD/sig	2.4	ns	P≤0.01	

Brassica napus var oleifera Canola

# 'BLN 1999'

Application No: 2000/218 Accepted: 14 Nov 2000. 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.

**Characteristics** (Table 9, Figure 42, 42b) Plant: height average, (165 cm); flowering and maturity early. Leaf: weakly lobed on 12 percent of plants, moderately dentate,

# Table 9 Brassica varieties

moderately long and broad, medium green. Flower: petals yellow, moderately long, and broad. Siliqua: peduncle, pod and beak long. Seed: free of erucic acid.

**Origin and Breeding** Controlled pollination: seed parent 'BLN 1274' x pollen parent 'BLN 1240' was made in 1996. The  $F_2$  was grown in a blackleg screening nursery in 1997 from which a single plant was selected for blackleg resistance and oil and protein. This selection (96\*126-130.3.4) was grown in an  $S_1$  yield trial at Wagga Wagga Agriculture Research Institute in 1998 from which it was selected on yield and early maturity. The line was accelerated to  $S_4$  trials in NSW in 1999 and in  $S_2$  trials in VIC, SA and WA. It has been included in  $S_4$  trials in four states in 2000. Breeder: Neil Wratten, Agriculture Research Institute, Wagga Wagga, NSW.

**Choice of Comparators** Early flowering varieties, 'Surpass 400', 'Georgie', 'AG Emblem', 'Mystic'<sup>(b)</sup>, and 'Monty'<sup>(b)</sup> were chosen on the basis of such characters as, 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. Herbicide-resistant varieties were not included as comparators. As the parents of BLN 1999 were two heterozygous individual plants in a breeding population seed was not retained for inclusion of the parents in comparative trials.

**Comparative Trial** Location: conducted in non-irrigated field plots at the Agricultural Research Institute at Wagga Wagga, NSW. Conditions: normal agronomic practices were employed. Trial design: seed was sown on 17 May 2000 in randomised blocks with three replications. Measurements: two replicates were sampled to provide 30 random samples per replication.

# Prior Applications and Sales Nil.

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

	'BLN1999'	*'Surpass 400'	*'Georgie'	*'AG Emblem'	*'Mystic' <sup>¢</sup>	*'Monty'∲
LEAF LENGTH	(cm)					
mean	24.3	21.5	26.3	26.3	26.0	23.4
std deviation	2.84	2.71	3.12	3.36	3.02	3.22
LSD/sig	1.32	P≤0.01	P≤0.01	P≤0.01	P≤0.01	ns
LEAF WIDTH (c	m)					
mean	10.5	9.7	11.1	10.8	11.0	10.4
std deviation	1.27	1.31	1.48	1.53	1.70	1.59
LSD/sig	0.63	P≤0.01	ns	ns	ns	ns
PLANTS WITH I	LEAF LOBES (%)					
	12	92	38	75	28	10
LOBE NUMBER	PER PLANT WITH	LOBED LEAVES				
mean	3.9	3.0	4.0	3.8	3.1	3.7
PETIOLE LENG	TH ON PLANTS WI	TH LOBED LEAV	ES (cm)			
mean	10.7	11.2	13.0	13.1	12.9	13.3
LEAF DENTATIO	ON (rating 3=slight, 7	7=strong)				
	5.2	5.1	5.1	5.7	5.3	5.0

# **Table 9 continued**

TIME OF FLOWERING (days after sowing at Wagga, NSW on 17 May 2000)						
	112	107	116	112	111	109
PLANT HEIGHT	(cm)					
mean	164.6	163.1	164.9	163.0	154.4	151.7
std deviation	9.4	7.0	7.9	8.9	10.0	6.84
LSD/sig	3.6	ns	ns	ns	P≤0.01	P≤0.01
PETAL LENGTH	(mm)					
mean	16.0	17.1	15.2	16.2	15.1	14.2
std deviation	0.82	0.90	1.98	1.17	0.90	1.20
LSD/sig	0.52	P≤0.01	P≤0.01	ns	P≤0.01	P≤0.01
PETAL WIDTH (	mm)					
mean	9.1	8.3	6.2	9.4	9.0	8.0
std deviation	0.82	0.99	1.17	0.98	0.73	0.85
LSD/sig	0.45	P≤0.01	P≤0.01	ns	ns	P≤0.01
SILIQUA LENGT	TH (mm)					
mean	58.2	54.2	54.4	56.8	57.3	57.7
std deviation	5.0	5.0	7.4	5.4	5.7	6.1
LSD/sig	2.55	P≤0.01	P≤0.01	ns	ns	ns
BEAK LENGTH	(mm)					
mean	13.3	12.9	11.7	12.0	13.2	12.5
std deviation	2.3	1.9	2.3	1.6	2.1	2.4
LSD/sig	0.93	ns	P≤0.01	P≤0.01	ns	ns
PEDUNCLE LEN	GTH (mm)					
mean	29.5	21.4	27.3	24.2	25.3	27.1
std deviation	4.6	3.0	4.4	2.9	4.5	4.6
LSD/sig	1.74	P≤0.01	P≤0.01	P≤0.01	P≤0.01	P≤0.01

# *Ceanothus gloriosus* **Ceanothus**

# 'Blue Sapphire'

Application No: 2000/099 Accepted: 16 Mar 2000. Applicant: **Kiwi Colour Ltd**, Auckland, New Zealand. Agent: **Greenhills Propagation Nursery**, Tynong, VIC.

**Characteristics** (Table 10, Figure 14) Plant: habit small shrub. Stem: young stem colour greyed-purple 187A. Leaf: length medium (mean 16.57mm), width medium (mean 10.41mm), colour green 139A. Flower: colour violet-blue 95B. (Note: All RHS colour chart numbers refer to 1995 edition.)

**Origin and Breeding** Spontaneous mutation: arose as a mutation from *Ceanothus* 'Blue Cushion' at the breeders property at Auckland, New Zealand in 1995. Cuttings were taken in 1995, and grown on for observation for the conformation of uniformity and stability of the selection. Selection criteria: leaf colour and plant habit. Propagation: vegetative through at least 3 generations. Breeder: Warwick Wilson, Auckland, New Zealand.

**Choice of Comparators** *Ceanothus* 'Blue Cushion' was chosen because it is the parental material from which the candidate variety was selected, and is also the closest known variety of common knowledge.

**Comparative Trial** Location: Tynong, VIC, autumn-spring 2000. Conditions: trial conducted in open, 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 twenty plants at random. One sample per plant.

# **Prior Applications and Sales**

Country	Year	<b>Current Status</b>	Name Applied
New Zealand	1997	Granted	'Blue Sapphire'
EU	1999	Applied	'Blue Sapphire'

First sold in New Zealand in Aug 1998.

Description: Mark Lunghusen, Croydon, VIC.

# Table 10 Ceanothus varieties

	'Blue Sapphire'	*'Blue Cushion'		
YOUNG STEM COLOUR				
	greyed-purple	green		
	187A	143B		
LEAF WIDTH (mm)				
mean	10.41	9.05		
std deviation	0.81	1.07		
LSD/sig	1.02	P≤0.01		

LEAF COLOUR (RHS, 1995)						
	green 139A	green 137A				
FLOWER COLOUR	R (RHS, 1995)					
	violet-blue	violet				
	95B	96A				

*Coprosma* hybrid **Coprosma** 

# 'Karo Red'

Application No: 2000/008 Accepted: 31 Jan 2000. Applicant: Landcare Research New Zealand Ltd, Lincoln, New Zealand.

Agent: Greenhills Propagation Nursery, Tynong, VIC.

**Characteristics** (Table 11, Figure 16) Plant: habit small shrub. Leaf: length medium (mean 29.43mm), width medium (mean 17.94mm), shape ovate, tip acute, base hastate, margin strong, main colour brown 200A, secondary colour green 141A, glossiness medium. (Note: All RHS colour chart numbers refer to 1995 edition.)

**Origin and Breeding** Controlled pollination: arose as a selection from seedlings from crosses made between *Coprosma* 'Coppershine' and *C. serrulata* at Lincoln, New Zealand. Cuttings were taken and grown on for observation for the conformation of uniformity and stability of the selection. Selection criteria: leaf colour. Propagation: vegetative through at least 3 generations. Breeder: P.B. Heenan, Lincoln, New Zealand.

**Choice of Comparators** *Coprosma* 'Yvonne' and 'Coppershine' were chosen because they are the closest known varieties of common knowledge. *Coprosma serrulata* was not chosen because 'Karo Red' shows no resemblence to this species. No other varieties were considered similar enough to include in the trial.

**Comparative Trial** Location: Tynong, VIC, autumn-spring 2000. Conditions: trial conducted in open, 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 forty plants at random. One sample per plant.

#### **Prior Applications and Sales**

Country	Year	<b>Current Status</b>	Name Applied
New Zealand	1998	Granted	'Karo Red'

Description: Mark Lunghusen, Croydon, VIC.

#### Table 11 Coprosma varieties

	'Karo Red'	*'Yvonne'	*'Coppershine'
LEAF: LENGT	TH (mm)		
mean	29.43	41.05	33.00
std deviation	2.13	4.35	2.43
LSD/sig	2.99	P≤0.01	P≤0.01

LEAF: WIDTH	LEAF: WIDTH (mm)							
mean	17.94	24.27	14.58					
std deviation	1.22	2.17	0.57					
LSD/sig	1.35	P≤0.01	P≤0.01					
LEAF: LENGT	TH TO WIDTH	RATIO						
mean	1.64	1.69	2.26					
std deviation	0.10	0.08	0.10					
LSD/sig	0.09	ns	P≤0.01					
LEAF: SHAPE	OF BLADE							
	ovate	ovate	obovate					
LEAF: SHAPE	E OF TIP							
	acute	obtuse	rounded					
LEAF: SHAPE	E OF BASE							
	hastate	hastate	cuneate					
LEAF: UNDU	LATION OF M	ARGIN						
	strong	medium	strong					
LEAF: MAIN	COLOUR (RHS	5, 1995)						
	brown	green	green					
	200A	137A	137A					
LEAF: SECON	DARY COLOU	UR (RHS, 1995	j)					
	green	brown	brown					
	141A	200A	200A					
LEAF: GLOSS	SINESS							
	medium	strong	medium					

Cupressus glabra Arizona Cypress

#### 'Limesheen'

Application No: 2000/100 Accepted: 21 Mar 2000. Applicant: **Peter & Ruth Donnelly**, Somersby, NSW.

**Characteristics** (Table 12, Figure 31) Plant: habit erect, broad columnar, speed of growth medium to fast, (mean height 74.7cm at 3.5 years old), width narrow conic (mean width 45.3cm after 3.5 years). First order branchlets: density medium, length short (10th from apex), main colour in spring upper side yellow (RHS 3B); lower side yellow green (RHS 144B). (Note: all RHS colour chart numbers refer to 1995 edition.)

**Origin and Breeding** Seedling selection: following self pollination of 'Limelight'<sup>()</sup> on applicant's property in 1994. Selection criteria: 'Limesheen' was selected out of the resulting progeny due to its dense, upright habit and lime-yellow foliage, whereas the parent has a wider, more open angular habit. Selection criteria: dense, compact growth habit. Propagation: by cuttings and grafting through 5 generations. Breeder: Peter Donnelly, Somersby. NSW.

**Choice of Comparator** Comparators: 'Limelight'<sup>(b)</sup> and 'Limeglow'<sup>(b)</sup>. 'Limelight'<sup>(b)</sup> was chosen because it is the original seed parent from which 'Limesheen' was selected. 'Limeglow'<sup>(b)</sup>, was chosen as the closest known variety to 'Limesheen', also coming from the same parent. One other sister variety – 'Highlight'<sup>(b)</sup>, was not included as it is taller, narrower, more compact and has a darker yellow leaf colour

than 'Limesheen'. No other similar forms of *Cupressus* glabra have been identified.

**Comparative Trial** Location: Somersby, NSW (Latitude 33°28' S, longitude 151° 22' E, elevation 250m), Sep 99 – Oct 2000. Conditions: trial conducted in open nursery using overhead irrigation, plants grown from cuttings potted into 300mm pots filled with soilless (pine bark based) potting mix, nutrition supplied by slow release fertilisers, no pest or disease control required. Trial design: 10 plants of each variety arranged in a completely randomised design. Measurements: From all trial plants at random. One sample per plant.

# **Prior Application and Sale**

First sold in Australia in Aug 1999 as 'Silversheen'. No prior overseas sales.

Description: Peter Donnelly, Somersby, NSW.

#### Table 12 Cupressus varieties

	'Limesheen'	*'Limelight' <sup>()</sup> *'Limeglow' <sup>()</sup>						
PLANT WIDTH (mm)								
mean	453	814	646					
std deviation	46.20	126.68	79.88					
LSD/sig	112.12	P≤0.01	P≤0.01					
NUMBER OF	FIRST ORDER	BRANCHLE	TS – on top 15cm					
of plant								
mean	11.3	8.9	23.4					
std deviation	2.71	2.37	5.39					
LSD/sig	4.64	ns	P≤0.01					
LENGTH OF F	FIRST ORDER	BRANCHLET	Γ (mm)					
mean	64.0	55.1	34.9					
std deviation	22.15	19.77	7.59					
LSD/sig	21.92	ns	P≤0.01					
BRANCHLET	BRANCHLET OF FIRST ORDER MAIN COLOUR							
(RHS, 1995) -	spring							
upper surface	3B	12B/7B	12B/12C					
lower surface	144B	149B/144B	149B/144B					

*Erysimum* hybrid **Wallflower** 

# **'Pastel Patchwork'**

Application No: 2000/017 Accepted: 8 Mar 2000. Applicant: **Plant Growers Australia**, Wonga Park, VIC.

**Characteristics** (Table 13, Figure 20) Plant: habit bushy, overall height short 37.90cm, foliage height tall (mean 19.20cm). Flowering stem: length short (mean 18.70cm). Flower: main petal colour during 1st phase greyed-orange 163A, secondary colour during 1st colour phase yellow 9B, main colour during 2nd colour phase, greyed-orange 177D, secondary colour during 3rd colour phase yellow 10B, main colour during 3rd colour phase yellow 10C. (Note: All RHS colour chart numbers refer to 1995 edition.)

**Origin and Breeding** Spontaneous mutation: arose from 'Apricot Delight'. Mutation took place in Wonga Park, VIC in 1997. 'Pastel Patchwork' was chosen in 1997 on the basis of flower colour. Selection criteria: flower colour. Propagation: a number mature stock plants were generated from this seedling through 2 generations by cutting propagation and were found to be uniform and stable. 'Pastel Patchwork' will be commercially propagated by vegetative cuttings from the stock plants. Breeder: Howard Bentley, Wonga Park, VIC.

**Choice of Comparator** 'Apricot Delight' was chosen because it is the parent plant and is also the closest known variety. No other similar varieties of common knowledge have been identified.

**Comparative Trial** Location: Park Orchards, VIC, autumnspring 2000. Conditions: trial conducted in pots, plants propagated from cutting, rooted cuttings planted into 150mm pots filled 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 twenty plants at random. One sample per plant.

#### Prior Applications and Sales Nil.

Description: Mark Lunghusen, Croydon, VIC.

# Table 13 Erysimum varieties

	'Pastel Patchwork'	*'Apricot Delight'			
PLANT: HEIGHT INCL	UDING FLOWERIN	IG STEM (cm)			
mean	37.90	43.40			
std deviation	3.38	3.37			
LSD/sig	3.37	P≤0.01			
PLANT: HEIGHT OF FO	DLIAGE (cm)				
mean	19.20	11.40			
std deviation	1.99	1.26			
LSD/sig	2.48	P≤0.01			
FLOWERING STEM: LENGTH OF FLOWERING PORTION					
mean	18.70	32.00			
std deviation	2.98	3.43			
LSD/sig	3.23	P≤0.01			
FLOWERING STEM: RA	ATIO LENGTH TO	HEIGHT OF			
mean	0.99	2.85			
std deviation	0.20	0.47			
LSD/sig	0.47	P≤0.01			
PETAL: MAIN COLOUI (RHS, 1995)	R DURING 1ST CO	LOUR PHASE			
. , ,	greyed orange	yellow orange			
	163A	17A			
PETAL: SECONDARY ( PHASE (RHS, 1995)	COLOUR DURING	1ST COLOUR			
	yellow 9B	absent			

# DESCRIPTIONS

PETAL: MAIN COLOUI	R DURING 2ND C	COLOUR PHASE
(RHS, 1995)		
	greyed-orange	orange
	177D	23A

PETAL: SECONDARY COLOUR DURING 2ND COLOUR PHASE (RHS, 1995)

yellow absent 10B

PETAL: MAIN COLOUR DURING 3RD COLOUR PHASE (RHS, 1995)

red-purple orange 60C 26A

PETAL: SECONDARY COLOUR DURING 3RD COLOUR PHASE (RHS, 1995) vellow absent

yellow 10C

*Grevillea* hybrid **Grevillea** 

# 'Crimson Yul-Lo'

Application No: 1999/270 Accepted: 31 Jan 2000. Applicant: **Ornatec Pty Ltd**, Birkdale, QLD and **Redlands Nursery Pty Ltd**, Redland Bay, QLD.

Characteristics (Table 14, Figure 25) Plant: habit upright shrub 3-4m x 2-3m, fast growing tropical Grevillea, greyed stems, wide leaves, stunning red bottlebrush terminal inflorescence suitable for cut flowers, flowers throughout the year. Stem: main stem branches fairly irregularly, side branches arise at about 30 degrees to main stem and tend to grow upwards, tips of branches almost upright to vertical, internodes very variable, young stem greyed orange (RHS 177B-D), mature stems turning greyish brown. Leaf: petiole short (ca. 4-7cm) but variable, colour greyish green (same as leaf colour), leaves pinnately divided into 5 to 9 linear lanceolate sub-opposite lobes (ca. 11 cm x 1 - 1.5 cm), upper leaf surface predominantly green (RHS 137C), lower surface greyed green (RHS 192D). Inflorescence: terminal, dense, cylindrical (ca. 13 - 17cm x 5 - 6cm); perianth glabrous (ca. 10mm x 5mm), outer colour red purple (RHS 61D), inner colour red purple (RHS 61B); style glabrous with weak bend, colour (fully open) red purple (RHS 61B); stigma out to upwards in relation to main axis, colour yellow (RHS 9A). (Note: all RHS colour chart number refers to 1995 edition.)

**Origin and Breeding** Controlled pollination: seed parent *Grevillea* 'Misty Pink' x pollen parent *Grevillea Banksii* 'Red'. The seed parent is characterised by pink flower colour. The hybridisation was done in early 1984; hybrid seed was collected and sown. A unique crimson (deep red) bloom was seen in the resulting offsprings. To date, it has gone through seven generations, and has been found to be stable and uniform. Selection criteria: flower colour, terminal flowering, flowers almost throughout the year and easy to propagate. Propagation: vegetatively propagated through cuttings. Breeder: Mr. Owen Brown, Golden Beach, QLD.

**Choice of Comparators** 'Coastal Dawn', 'Pink Surprise' and 'Sylvia' were chosen as similar varieties of common knowledge in flower colour. In addition, the seed parent 'Misty Pink' and pollen parent *Grevillea Banksii* 'Red' were also included in the trial. No other similar varieties of common knowledge have been identified.

**Comparative Trials** Location: Birkdale Nursery (pot grown), Ormiston and Loganhome (Field grown) QLD, Jan 1999 to Dec 2000. Conditions: trial conducted in full sun, plants propagated from cuttings (12/01/1999) and potted with soilless media (peat and bark based), plants also grown in field for evaluation and comparison, nutrition maintained with controlled release fertilisers, pest and disease management applied as required. Trial design: 30 pots of each variety arranged in a completely randomised design, at least 10 plants of candidate varieties were also planted out in field. Measurements: from field and pots at random, detailed measurements were only taken of flower colour.

# Prior Applications and Sales Nil.

Description : Deo Singh, Ornatec Pty Ltd, QLD.

# 'Coastal Dawn'

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

Characteristics (Table 14, Figure 25) Plant: habit upright shrub 3-4m x 2-3m, fast growing tropical Grevillea, stunning red-purple bottlebrush terminal inflorescence suitable for cut flowers, flowers mainly winter and spring. Stem: main stem branches fairly irregularly, side branches arise at about 75 degrees to main stem and tend to grow upwards, tips of branches almost upright to vertical, internodes very variable, young stem greyed orange (RHS 177B-D), mature stems turning greyish brown. Leaf: petiole short (ca. 4-5cm) but variable, colour greyish green (same as leaf colour), leaves pinnately divided into 9 to 13 linear lanceolate sub-opposite lobes (ca. 12cm x 0.5cm), upper leaf surface predominantly green (RHS 137C), lower surface greyed green (RHS 192D). Inflorescence: terminal, sparse, cylindrical (ca. 12-15cm x 6-8cm); perianth glabrous (ca. 13mm x 5mm), outer colour red purple (RHS 63C), inner colour red purple (RHS 63A); style glabrous with weak bend, colour (fully open) red purple (RHS 65B); stigma out in relation to main axis, colour yellow (RHS 13B). (Note: all RHS colour chart number refers to 1995 edition.)

**Origin and Breeding** Controlled pollination: seed parent *Grevillea* 'Misty Pink' x pollen parent *Grevillea Banksii* 'Red'. The seed parent is characterised by pink flower colour. The hybridisation was done in early 1990; hybrid seed was collected and sown. A unique red-purple bloom appeared in July 1993, from the resulting offsprings. To date, it has gone through seven generations, and has been found to be stable and uniform. Selection criteria: flower colour, terminal flowering, flowers mainly in winter and spring and easy to propagate. Propagation: vegetatively propagated through cuttings. Breeder: Mr. Owen Brown, Golden Beach, QLD.

**Choice of Comparators** 'Crimson Yul-Lo', 'Pink Surprise' and 'Sylvia' were chosen as similar varieties of common knowledge in flower colour. In addition, the seed parent 'Misty Pink' and pollen parent *Grevillea Banksii* 'Red' were also included in the trial. No other similar varieties of common knowledge have been identified.

**Comparative Trials** Location: Birkdale Nursery (pot grown), Ormiston and Loganhome (Field grown) QLD, Jan 1999 to Dec 2000. Conditions: trial conducted in full sun, plants propagated from cuttings (12/01/1999) and potted

with soilless media (peat and bark based), plants also grown in field for evaluation and comparison, nutrition maintained with controlled release fertilisers, pest and disease management applied as required. Trial design: 30 pots of each variety arranged in a completely randomised design, at least 10 plants of candidate varieties were also planted out in field. Measurements: from field and pots at random, detailed measurements were only taken of flower colour.

# Prior Applications and Sales Nil.

Description : Deo Singh, Ornatec Pty Ltd, QLD.

# Table 14 Grevillea varieties

	'Coastal' Dawn'	'Crimson Yul-Lo'	*'Misty Pink'	*'Pink Surprise'	*G. banksii 'Red'	*'Sylvia'
INFLORESCENCE	: WIDTH					
	medium	narrow	medium	medium	broad	medium to broad
INFLORESCENCE	: DENSITY					
	sparse	dense	medium	sparse	dense	sparse
STIGMA: ATTITU	DE IN RELATIO	N TO MAIN AXIS	OF INFLORESCE	NCE		
	out	upwards	n/a	down	down	down
FLOWER: SIZE						
	medium	small	medium	large	large	medium to large
PERIANTH: COLC	OUR (RHS, 1995)					
	63A-C	61B-D	55B-D	55B-D	61B-D	63A-D
STYLE: COLOUR	WHEN FLOWER	R FULLY OPEN (RI	HS, 1995)			
	65B	61B	150D	150D	61B	63A
STYLE: BEND						
	weak	weak	weak	strong	medium	medium

# 'Coastal Sunset'

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

Characteristics (Table 15, Figure 24) Plant: habit upright shrub 3-4m x 2-3m, fast growing tropical Grevillea, stunning orange-red bottlebrush terminal inflorescence suitable for cut flowers, flowers mainly winter and spring. Stem: main stem branches fairly irregularly, side branches arise at about 75 degrees to main stem and tend to grow upwards, tips of branches almost upright to vertical. internodes variable, young stem light greyish green (RHS 192D), mature stems turning light greyish brown. Leaf: petiole short (ca. 4cm) but variable, colour greyish green (same as leaf colour), leaves pinnately divided into 9 to 13 linear lanceolate sub-opposite lobes (ca. 14cm x 0.5cm), upper leaf surface predominantly green (RHS 137C), lower surface greyed green (RHS 192D). Inflorescence: terminal, sparse, cylindrical (ca. 14-16cm x 6-7cm); perianth glabrous (ca. 12mm x 5mm), outer colour greyed orange (RHS 168D), inner colour red (RHS 39A); style glabrous with very weak bend, colour (fully open) greyed orange (RHS 170C); stigma yellow (RHS 13A). (Note: all RHS colour chart number refers to 1995 edition.)

**Origin and Breeding** Controlled pollination: seed parent *Grevillea* 'Golden Yul Lo'<sup>(b)</sup> x pollen parent *Grevillea Banksii* 'Red' The seed parent is characterised by yellow flower colour. The hybridisation was done in early 1994, hybrid seed was collected and sown. A unique orange (tangerine) bloom appeared in August 1996, from the resulting offsprings. To date, it has gone through six generations, and has been found to be stable and uniform. Selection criteria: flower colour, terminal flowering, flowers mainly in winter and spring and easy to propagate. Propagation: vegetatively propagated through cuttings. Breeder: Mr. Owen Brown, Golden Beach, QLD.

**Choice of Comparators** 'Sunset Bronze', 'Coastal Twilight' and 'Dot Brown'<sup>(b)</sup> were chosen as similar varieties of common knowledge in flower colour. *Grevillea* 'Winter Sparkles' was not included in the trial because the flowers are of 'Sandra Gordon' type ie. yellow. Similarly *Grevillea* 'Jester' was not included in the trial due to its different growth habit – spreading shrub. The seed parent *Grevillea* 'Golden Yul Lo'<sup>(b)</sup> was not included because of its difference in flower colour as stated above. The pollen parent *Grevillea Banksii* 'Red' was not included because of its red flower colour. No other similar varieties of common knowledge have been identified.

**Comparative Trials** Location: Birkdale Nursery (pot grown), Ormiston and Loganhome (Field grown) QLD, Jan 1999 to Dec 2000. Conditions: trial conducted in full sun, plants propagated from cuttings (12/01/1999) and potted with soilless media (peat and bark based), plants also grown in field for evaluation and comparison, nutrition maintained with controlled release fertilisers, pest and disease management applied as required. Trial design: 30 pots of each variety arranged in a completely randomised design, at least 10 plants of candidate varieties were also planted out in field. Measurements: from field and pots at random, detailed measurements were only taken of flower colour.

# Prior Applications and Sales Nil.

Description : Deo Singh, Ornatec Pty Ltd, QLD.

# 'Coastal Twilight'

Application No: 2000/007 Accepted: 31 Jan 2000. Applicant: **Ornatec Pty Ltd**, Birkdale, QLD.

Characteristics (Table 15, Figure 24) Plant: habit upright shrub 3-4m x 2-3m, fast growing tropical Grevillea, attractive fine foliage, stunning greyed-red bottlebrush terminal inflorescence suitable for cut flowers, flowers almost through out the year. Stem: main stem branches fairly irregularly, side branches arise at about 75 degrees to main stem and tend to grow upwards, tips of branches almost upright to vertical, internodes very variable, young stem light greyish green (RHS 192D), mature stems turning light greyish brown. Leaf: attractive fine leaves, petiole short (ca. 4cm) but variable, colour greyish green (same as leaf colour), leaves pinnately divided into 14 to 18 linear lanceolate sub-opposite lobes (ca. 13-16cm x 0.3cm), upper leaf surface predominantly green (RHS 137C), lower surface greved green (RHS 192D). Inflorescence: terminal, sparse, cylindrical (ca. 12-14cm x 7-8cm); perianth hairy (ca. 10mm x 3mm), outer colour greyed red (RHS 179C), inner colour greved red (RHS 179A); style glabrous, with very weak bend, colour (fully open) greved red (RHS 179B); stigma upward, colour yellow (RHS 5A). (Note: all RHS colour chart number refers to 1995 edition.)

**Origin and Breeding** Open pollination followed by seedling selection: seed parent *Grevillea* 'Honey Gem' was growing amongst the other varieties. It is characterised by yellow flower colour. Following open-pollination, seeds were collected and sown in early 1995. A unique greyed red bloom appeared in 1997 from the resulting offsprings. To date, it has gone through four generations, and has been found to be stable and uniform. Selection criteria: flower colour, terminal flowering, flowers almost throughout the year and easy to propagate. Propagation: vegetatively through cuttings. Breeder: Mr. Owen Brown, Golden Beach, QLD.

**Choice of Comparators** 'Sunset Bronze', 'Coastal Sunset' and 'Dot Brown'<sup>(b)</sup> were chosen as similar varieties of common knowledge in flower colour. *Grevillea* 'Winter Sparkles' was not included in the trial because the flowers are of 'Sandra Gordon' type ie. yellow. Similarly *Grevillea* 'Jester' was not included in the trial due to its different growth habit – spreading shrub. The seed parent *Grevillea* 'Honey Gem' was not included because of its difference in

flower colour as stated above. No other similar varieties of common knowledge have been identified.

**Comparative Trials** Location: Birkdale Nursery (pot grown), Ormiston and Loganhome (Field grown) QLD, Jan 1999 to Dec 2000. Conditions: trial conducted in full sun, plants propagated from cuttings (12/01/1999) and potted with soilless media (peat and bark based), plants also grown in field for evaluation and comparison, nutrition maintained with controlled release fertilisers, pest and disease management applied as required. Trial design: 30 pots of each variety arranged in a completely randomised design, at least 10 plants of candidate varieties were also planted out in field. Measurements: from field and pots at random, detailed measurements were only taken of flower colour.

# Prior Applications and Sales Nil.

Description : Deo Singh, Ornatec Pty Ltd, QLD.

#### Table 15 Grevillea varieties

	'Coastal Twilight'	'Coastal Sunset'	*'Sunset Bronze'	*'Dot Brown'∲
PLANT: HA	BIT			
	upright	upright	upright	spreading
LEAF: COLO	OUR UPPER	SIDE – hair	removed (R	HS, 1995)
	139A	137C	139A	137A
LEAF: COLO 1995)	OUR OF LO	WER SIDE -	- including h	air (RHS,
	192D	192D	192B	190D
LEAF: HAIR	RINESS OF U	JPPER SIDE	2	
	medium	medium	absent or very weak	weak
FLOWER: S	IZE			
	medium	medium	medium	large
RECEPTACI	LE: COLOUR	R (RHS, 199	5)	
	195B	145B	194B	145C-D
PERIANTH:	COLOUR (F	RHS, 1995)		
	179A-C	168D and	168B and	160B and
		39A	46A	166B
STYLE: CO	LOUR WHE	N FLOWER	FULLY OPI	EN
(RHS, 1995)				
	179B	170C	168A	167D
STIGMA: CO	OLOUR (RH	S, 1995)		
	5A	13A	7A	6A

# *Gypsophila paniculata* **Baby's Breath**

# 'Danfesroy'

Application No: 2000/234 Accepted: 22 Aug 2000. Applicant: **Danziger – 'Dan' Flower Farm,** Moshav Mishmar Hashivar, Israel. Agent: **Lynch Flowers**, Glenorie, NSW. **Characteristics** (Table 16, Figure 26) Plant: herbaceous rosette forming perennial, short (386mm), compact. Leaf: lanceolate with acute tip, opposite 36.60mm long, 7.85mm width, colour RHS 147A. Inflorescence: compact cymose panicle of numerous flowers. Flowering time: very late. Flower: semi-double, medium (8.50mm diameter), floriferous; petals average 24.6 per flower, generally obtuse, colour whiter than 155D, stamen –5 anthers, pollen white; pistil- stigma light green, style light green, pedicel short 6.59mm in length.

**Origin and Breeding** Controlled pollination: hybridisation between various genotypes of *Gypsophila paniculata* in applicant's long term breeding program. The maternal parent is a breeding line characterised by a dwarfish, compact growth habit, condensed stem structure, strong apical dominance, large, cream-white, semi-double flowers and early flowering. Selection criteria: selected on the basis of compact growth, unique stem and flower formation and size of flower. Propagation: vegetative by cuttings. Breeder: Gabriel Danziger, Mishmar Hashiva, Israel.

**Choice of Comparators** Comparator 'Festival White'<sup>()</sup> was chosen for its similar compact growth form.

**Comparative Trial** Location: Glenorie, NSW. Conditions: plants were grown in a naturally ventilated plastic covered green house. Growing medium was a native sandy loam soil amended with fertilisers used for the commercial cultivation of *Gypsophila* and formed into raised beds. Rooted cuttings of normal commercial size were planted into the beds on Apr 30, 2000. Irrigation was by drip when required. Trial design: Randomised complete block design with 3 blocks and 8 plants per block. Measurements: were taken at flowering, Sep to Oct, 2000. Height was measured for 5 plants, leaf measurements were made on the leaves from the 5th node below the inflorescence, flower diameter on 24 plants, a pedicel length on 10 plants, petal number on 15 plants.

# **Prior Applications and Sales**

Country	Year	<b>Current Status</b>	Name Applied
EU	2000	Applied	'Danfesroy'

First sold in USA in 2000.

Description: Greg Lamont, Lynch Flowers, Glenorie NSW.

#### Table 16 Gypsophila varieties

	'Danfesroy'	*'White Festival' <sup>‡</sup>
GROWTH HABIT		
	compact, short	semi-erect, tall
LEAF LENGTH (mm)		
mean	36.60	62.95
std deviation	3.77	9.09
LSD/sig	8.96	P≤0.01
LEAF WIDTH (mm)		
mean	7.85	6.12
std deviation	0.46	0.09
LSD/sig	1.10	P≤0.01

LEAF LENGTH/WIDT	'H RATIO	
mean	4.68	10.29
std deviation	0.49	0.82
LSD/sig	0.87	P≤0.01
PETAL NUMBER		
mean	24.6	19.6
std deviation	3.26	2.74
LSD/sig	3.04	P≤0.01
FLOWER COLOUR (R	CHS, 1995)	
	whiter than 155D	white (155D)
FLOWERING TIME		
	very late	very early

Note: leaf data taken from 5th leaf below the inflorescence.

# 'Dangypflash'

Application No: 2000/235 Accepted: 22 Aug 2000. Applicant: **Danziger – 'Dan' Flower Farm,** Moshav Mishmar Hashivar, Israel. Agent: **Lynch Flowers**, Glenorie, NSW.

**Characteristics** (Table 17, Figure 27) Plant: herbaceous rosette forming perennial, tall (1420mm), erect. Leaf: lanceolate to oblanceolate with acute tip, opposite, 103.28mm long, 14.61mm width, colour RHS 147A. Inflorescence: cymose panicle of numerous flowers. Flowering time: late. Flower: double, medium (9.20mm diameter), very floriferous; petals average 33.66 per flower, generally obtuse, colour whiter than 155D, stamen 5 anthers, pollen white; pistil: stigma light green, style light green, pedicel short 7.22mm in length.

**Origin and Breeding** Controlled pollination: hybridisation between various genotypes of *Gypsophila paniculata* in applicant's long term breeding program. The maternal parent is characterised by an open and spreading plant structure, very strong apical dominance, creamy white flowers and a moderate shelf life. Selection criteria: selected on the basis of erect upright growth, ease of harvesting, and narrow conical inflorescence shape, fully double medium-sized flower. Propagation: vegetative by cuttings. Breeder: Gabriel Danziger, Mishmar Hashiva, Israel.

**Choice of Comparators** Comparator 'Perfecta R11' was chosen for its similarity in flower size and double flower nature.

**Comparative Trial** Location: Glenorie, NSW. Conditions: plants were grown in a naturally ventilated plastic covered green house. Growing medium was a native sandy loam soil amended with fertilisers used for the commercial cultivation of Gypsophila and formed into raised beds. Rooted cuttings of normal commercial size were planted into the beds on Apr 30, 2000. Irrigation was by drip irrigation when required. Trial design: Randomised complete block design with 3 blocks and 8 plants per block. Measurements were taken at flowering: Sep to Oct, 2000. Height was measured for 5 plants, leaf measurements were made on the leaves from the 5th node below the inflorescence, flower diameter on 24 plants, a pedicel length on 10 plants, petal number on 15 plants.

# **Prior Applications and Sales**

Country	Year	<b>Current Status</b>	Name Applied
Israel	1998	Granted	'Dangypflash'
EU	1999	Granted	'Dangypflash'

First sold in Israel in 1999.

Description: Greg Lamont, Lynch Flowers, Glenorie NSW.

# Table 17 *Gypsophila* varieties

	'Dangypflash'	*'Perfecta R11'
GROWTH HABIT		
	erect	semi-erect
LEAF WIDTH (mm	)	
mean	14.61	18.25
std deviation	1.53	2.73
LSD/sig	2.85	P≤0.01
LEAF LENGTH/WI	DTH RATIO	
mean	7.09	5.45
std deviation	0.36	0.39
LSD/sig	0.49	P≤0.01
LEAF SHAPE		
	lanceolate to oblanceolate	lanceolate
PEDICEL LENGTH	[ (mm)	
mean	7.22	11.90
std deviation	0.86	0.91
LSD/sig	1.02	P≤0.01
FLOWER DIAMET	ER (mm)	
mean	9.20	10.33
std deviation	0.29	0.32
LSD/sig	0.24	P≤0.01

Note: leaf data taken from 5th leaf below the inflorescence.

# 'Dangypmini'

Application No: 1998/019 Accepted: 3 Feb 1998. Applicant : **Danziger – 'Dan' Flower Farm,** Moshav Mishmar Hashivar, Israel. Agent: **Lynch Flowers**, Glenorie, NSW.

**Characteristics** (Table 18, Figure 28) Plant: herbaceous rosette forming perennial, tall (1310mm), erect. Leaf: lanceolate with acute tip, opposite maximum 44.59mm long, 8.60mm width, colour RHS 147A. Inflorescence: cymose panicle of numerous flowers. Flowering time: very late. Flower: semi-double, small (5.15mm diameter), very floriferous; petals average 19.06 per flower, generally obtuse, colour whiter than 155D, stamen – 5 anthers, pollen white; pistil- stigma light green, style light green, pedicel short 3.86mm in length.

**Origin and Breeding** Controlled pollination: hybridisation between various genotypes of *Gypsophila paniculata* in applicant's long term breeding program. The maternal parent is characterised by an open, loose plant structure, stems with strong apical dominance, few lightweight stems, resistance to pests and diseases and plenty of small white

semi-double flowers. Pollen parent was characterised by compact growth and small white semi-double flowers. Selection criteria: selected on the basis of its unique stem and flower formation and size of flower. Propagation: vegetative by cuttings. Breeder: Gabriel Danziger, Mishmar Hashiva, Israel.

**Choice of Comparator** 'Magic Golan'<sup>(b)</sup> was chosen for its similar shiny white flower colour.

**Comparative Trial** Location: Glenorie, NSW. Conditions: plants were grown in a naturally ventilated plastic covered green house. Growing medium was a native sandy loam soil amended with fertilisers used for the commercial cultivation of Gypsophila and formed into raised beds. Rooted cuttings of normal commercial size were planted into the beds on April 30, 2000. Irrigation was by drip when required. Trial design: Randomised complete block design with 3 blocks and 8 plants per block. Measurements were taken at flowering: Sep to Oct, 2000. Height was measured for 5 plants, leaf measurements were made on the leaves from the 5th node below the inflorescence, flower diameter on 24 plants, a pedicel length on 10 plants, petal number on 15 plants.

# **Prior Applications and Sales**

Country	Year	Status	Name Applied
Israel	1996	Granted	'Dangypmini'
Europe	1997	Granted	'Dangypmini'
Japan	1997	Applied	'Dangypmini'
UŜA	1997	Granted	'Dangypmini'
New Zealand	1998	Granted	'Dangypmini'
Colombia	1998	Applied	'Dangypmini'
South Africa	1998	Granted	'Dangypmini'

First sold in Israel in 1997.

Description: Greg Lamont, Lynch Flowers, Glenorie NSW.

# 'Dangysha' syn Yukinko

Application No: 1998/022 Accepted: 9 Jun 1998. Applicant: **Danziger – 'Dan' Flower Farm,** Moshav Mishmar Hashivar, Israel.

Agent: Lynch Flowers, Glenorie, NSW.

**Characteristics** (Table 18, Figure 29) Plant: herbaceous rosette forming perennial, tall (1446mm), erect. Leaf: lanceolate with acute tip, opposite, 75.99mm long, 8.85mm width, colour RHS 147A. Inflorescence: open cymose panicle of numerous flowers. Flowering time: medium. Flower: semi-double, medium (7.77mm diameter), very floriferous; petals average 22.46 per flower, generally obtuse, colour whiter than 155D, stamen –5 anthers, pollen white; pistil- stigma light green, style light green, pedicel short 8.66mm in length.

**Origin and Breeding** Controlled pollination: hybridisation between various genotypes of *Gypsophila paniculata* in applicant's long term breeding program. The maternal parent is characterised by upright growth habit, relatively weak apical dominance, conical-shaped inflorescence, white, medium sized semi-double flowers, 8-10 flowering stems per plant, and pink colouration of flowers during cold temperature. Selection criteria: selected on the basis of erect

upright growth, ease of harvesting, and narrow conical inflorescence shape. Propagation: vegetative by cuttings. Breeder: Gabriel Danziger, Mishmar Hashiva, Israel.

Choice of Comparator 'Magic Golan'<sup>()</sup> was chosen for its similar flower colour and flower size.

Comparative Trial: Location: Glenorie, NSW. Conditions: plants were grown in a naturally ventilated plastic covered green house. Growing medium was a native sandy loam soil amended with fertilisers used for the commercial cultivation of Gypsophila and formed into raised beds. Rooted cuttings of normal commercial size were planted into the beds on Apr 30, 2000. Irrigation was by drip when required. Trial design: Randomised complete block design with 3 blocks and 8 plants per block. Measurements were taken at flowering: Sep to Oct, 2000. Height was measured for 5 plants, leaf measurements were made on the leaves from the 5th node below the inflorescence, flower diameter on 24 plants, a pedicel length on 10 plants, petal number on 15 plants.

# **Prior Applications and Sales**

Country	Year	<b>Current Status</b>	Name Applied
Japan	1996	Applied	'Dangysĥa'
EÛ	1997	Applied	'Dangysha'
Israel	1998	Granted	'Dangysha'

First sold in USA in 1997.

Description: Greg Lamont, Lynch Flowers, Glenorie NSW.

# Table 18 Gypsophila varieties

	<b>'Dangysha'</b> syn <b>Yukinko</b>	'Dangypmini	*'Magic Golan'¢ syn Golan¢
GROWTH HA	BIT		
	erect	erect	semi-erect
LEAF LENGT	H (mm) LSD (P	9≤0.01) = 8.95	
mean	75.99 <sup>b</sup>	44.59 <sup>a</sup>	112.54 <sup>c</sup>
std deviation	8.61	5.46	7.25
LEAF WIDTH	(mm) LSD (P≤	0.01) = 1.71	
mean	8.85 <sup>a</sup>	8.60 <sup>a</sup>	15.96 <sup>b</sup>
std deviation	1.71	0.91	1.40
LEAF LENGT	H/WIDTH RAT	IO LSD (P≤0.0	(1) = 1.25
mean	8.71 <sup>c</sup>	5.26 <sup>a</sup>	7.07 <sup>b</sup>
std deviation	0.91	1.45	0.38
PEDICEL LEN	IGTH (mm) LSI	D (P≤0.01) = 1.	.21
mean	8.66 <sup>b</sup>	3.86 <sup>a</sup>	8.55 <sup>b</sup>
std deviation	1.53	0.46	0.57
FLOWER DIA	METER (mm) I	LSD (P≤0.01) =	= 0.22
mean	7.77 <sup>b</sup>	5.15 <sup>a</sup>	9.13 <sup>c</sup>
std deviation	0.36	0.32	0.14
PETAL NUME	BER LSD (P≤0.0	)1) = 2.54	
mean	22.46 <sup>b</sup>	19.06 <sup>a</sup>	23.40 <sup>b</sup>
std deviation	3.20	1.98	2.55

FLOWER	NG TIME			
	medium	very late	early	
	1 C 11 1 1			

Note: mean values followed by the same letters are not significantly different at P≤0.01 according to DMRT.

Leaf data taken from 5th leaf below the inflorescence.

Hebe	hybrid
Hebe	

# **'Beverley Hills'**

Application No: 2000/098 Accepted: 16 Mar 2000. Applicant: Annton Nursery Ltd, Cambridge, New Zealand.

Agent: Greenhills Propagation Nursery, Tynong, VIC.

Characteristics (Table 19, Figure 23) Plant: habit small shrub. Stem: colour greyed-purple 183B. Leaf: length medium (mean 23.53mm), width medium (mean 8.13mm), shape oblanceolate, apex acuminate, base cuneate, cross section slightly concave. Flower: colour purple-violet 82B. Pedicel: colour greyed-purple 183B. (Note: All RHS colour chart numbers refer to 1995 edition.)

Origin and Breeding Open pollination followed by seedling selection: arose as a selection of seedlings believed to be from open pollination between Hebe diosmifolia and Hebe 'Inspiration' at the breeders property in Cambridge, New Zealand in 1994. Cuttings were taken in 1994, and grown on for observation for the conformation of uniformity and stability of the selection. Selection criteria: leaf size and flower colour. Propagation: vegetative through at least 3 generations. Breeder: Ann Burton, Cambridge, New Zealand.

Choice of Comparators Hebe diosmifolia and Hebe 'Inspiration' were chosen because they are believed to be the parental material from which the candidate variety was selected, and are also the closest known varieties of common knowledge. Hebe buxifolia was considered but excluded because of its white flowers, many of the large leafed Hebe were also considered but rejected because of their obviously much larger leaves.

Comparative Trial Location: Tynong, VIC, autumn-spring 2000. Conditions: trial conducted in open, plants propagated from cutting, rooted cuttings planted into 250mm 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** 

I HOL APPHCA	aons and		
Country	Year	<b>Current Status</b>	Name Applied
New Zealand	1997	Granted	'Beverley
			Hills'
First sold in Ne	w Zeala	nd in Dec 1996.	

Description: Mark Lunghusen, Croydon, VIC.

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# Table 19 *Hebe* varieties

	'Beverley Hills'	*Hebe diosmifolia	*'Inspiration'	
LEAF LENGT	H (mm)			
mean	23.53	19.65	37.08	
std deviation	1.47	1.02	1.47	
LSD/sig	1.62	P≤0.01	P≤0.01	
LEAF WIDTH	(mm)			
mean	8.13	5.91	12.51	
std deviation	0.49	0.37	0.58	
LSD/sig	0.57	P≤0.01	P≤0.01	
LEAF TIP				
	acuminate	acute	acuminate	
LEAF CROSS	SECTION			
	slightly	concave	flat	
	concave			
FLOWER COI	LOUR (RHS, 19	95)		
	purple-violet	violet	purple violet	
	82B	85B	82A	
PEDICEL CO	LOUR (RHS, 19	95)		
	greyed-purple	greyed-brown	brown	
	183B	199A	200D	
STEM COLOU	JR (RHS, 1995)			
	greyed-purple	yellow-green	greyed-purple	
	183B	144A	183A	

# 'Heebie Jeebies'

Application No: 1999/090 Accepted: 17 May 1999. Applicant: **Stephen Membrey and Gayle Membrey,** Frankston, VIC.

Agent: **Plants Management Australia Pty Ltd,** Warragul, VIC.

**Characteristics** (Table 20, Figure 22) Plant: evergreen spreading shrub. Stem: glaucous, colour greyed orange (RHS 177B) when young, density of foliage dense. Leaf: sessile, glabrous, glossy, shape oblanceolate, apex mucronulate, base attenuate, margin slightly crenate at apical end, colour yellow green (RHS 147A) on upper side and (RHS 146B) on lower side. Inflorescence: raceme, flowers in clusters developing from basal end first. Flower: number of sepals four, colour green, number of petals four colour violet blue, white at base of raceme, pedicel length short. Petal: colour at dehiscence violet blue (RHS 92A-B). Stamen: number two, filament colour violet blue, anther colour orange. Ovary: inferior, style colour violet blue, stigma colour cream. (Note: all RHS colour chart numbers refer to 1986 edition.)

**Origin and Breeding** Open-pollinated seedling: likely parent *Hebe* 'Inspiration' which was growing in the vicinity. Selection criteria: 'Heebie Jeebies' was chosen on the basis of flower colour, prolific flowering, and glossy foliage. Propagation: a number of mature stock plants were generated from the original seedling by cuttings through several generations to confirm uniformity and stability.

'Heebie Jeebies' will be commercially propagated by cuttings. Breeder: Stephen Membrey, Frankston, VIC.

**Choice of Comparator** 'Purple Haze' and 'Inspiration' were considered as similar varieties of common knowledge. 'Purple Haze' was chosen because of similarities in flower colour. 'Inspiration' was chosen because it is the likely parent plant.

**Comparative Trial** Location: Dromana, VIC, between Dec 1999 and Nov 2000. Conditions: outdoors under ambient southern Victorian (Latitude 38<sup>o</sup>S) conditions; plants begun as cuttings December 1999, transplanted to 200 mm pots in Feb 2000; media soilless, controlled release fertiliser. Trial design: randomised block. Measurements: ten to twenty specimens selected from ten plants.

#### **Prior Applications and Sales**

No prior applications.

'Heebie Jeebies' was first sold in Australia in Nov 1999.

Description: David Nichols, Rye, VIC.

#### Table 20 Hebe Varieties

	'Heebie Jeebies'	*'Purple Haze	*'Inspiration'
PLANT WIDTH	H (cm)		
mean	41.1	44.9	46.5
std deviation	3.3	4.5	5.1
LSD/sig	5.0	ns	P≤0.01
PLANT WIDTH	H: HEIGHT RA	ATIO	
mean	1.4	1.6	1.9
std deviation	0.2	0.2	0.6
LSD/sig	0.4	ns	P≤0.01
STEM CHARA density of foliag	CTERISTICS ge		
	dense	medium to dense	dense
colour of young	stem (RHS, 19	986)	
, ,	177B	177B	177A
LEAF LENGTH	H (mm) two lar	gest leaves.	
mean	36.4	41.6	48.0
std deviation	4.0	2.2	2.1
LSD/sig	2.1	P≤0.01	P≤0.01
LEAF WIDTH	(mm) two large	est leaves	
mean	11.2	14.0	15.3
std deviation	0.7	0.9	1.3
LSD/sig	0.7	P≤0.01	P≤0.01
LEAF CHARA colour upper sid	CTERISTICS le (RHS, 1986)		
	147A	146A	147A
colour under sid	le (RHS, 1986)		
	146B	144A	146A
shape of blade	oblanceolate	elliptic	oblanceolate
margin	slightly	entire	slightly
	crenate		crenate

# Table 20 continued

FLOWER WII	OTH (cm)		
mean	8.3	11.7	8.5
std deviation	0.7	0.5	0.7
LSD/sig	0.8	P≤0.01	ns
FLOWER CHA	ARACTERIST	ICS	
petal colour	violet blue	violet blue	violet
(RHS, 1986)	92A-B	90C-D	84A, 86D

Lupinus angustifolius Narrow Leafed Lupin

# 'Jindalee'

Application No: 2000/297 Accepted: 6 Nov 2000.

Applicant: Department of Agriculture for and on behalf of the State of New South Wales, Orange, NSW, Grains Research and Development Corporation, Barton ACT and Minister for Primary Industries & Resources, Rosedale, SA.

**Characteristics** (Table 21, Figure 43) Plant: habit bushy, semi erect, height medium tall, maturity medium late. Stem: anthocyanin absent. Leaf: petiole short, leaflet length medium, leaflet width narrow, green. Inflorescence: spike. Flower: medium late, sessile, white to pale blue, tip of carina blue. Seed: cream, strongly ornamented, weight medium. Moderately susceptible to anthracnose compared with 'Wonga'<sup>(b)</sup>. Moderately resistant to Phomopsis compared with 'Wonga'<sup>(b)</sup>, 'Quilinock' and 'Gungurru' which are susceptible.

Table 21 *Lupinus* varieties

**Origin and Breeding** Open pollination followed by single plant selection: 'Jindalee' arose from a distinct plant identified in a population of 'Gungurru'. 'Jindalee' was selected from the progeny on its late flowering, resistance to Phomopsis stem infection and moderate seed size. The seed parent is characterised by shorter early growth, and shorter growth at the beginning of flowering, a longer petiole and broader leaflets. Propagation by seed. Breeder: David Luckett, Wagga Wagga, NSW with the original selection identified by Wayne Hawthorne, Naracoorte, SA. Progenies were evaluated by John Gladstones, Perth, WA and Kate Landers, Wagga Wagga, NSW.

**Choice of Comparators** 'Gungurru' was chosen because it is the original source material from which the variety was selected. 'Quilinock', 'Wonga'<sup>(b)</sup> and 'Geebung' were selected as comparators because of their similar appearance. No other similar varieties of common knowledge have been identified.

**Comparative Trial** Location: Wagga Wagga, NSW (Latitude 35°S, elevation 200m), winter-spring 2000. Conditions: trial conducted in dryland plots in a randomised block with three replications and normal field management. Measurements were taken on ten randomly selected plants in each replication. One sample per plant.

# Prior Applications and Sales Nil.

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

	'Jindalee'	*'Quilinock'	* <b>'Wonga'</b> ()	'Geebung'	'Gungurru'
PLANT HEIGHT 3	weeks after emergenc	e (cm)			
mean	6.8	5.8	8.0	6.1	5.3
std deviation	0.65	0.73	0.59	0.71	0.65
LSD/sig	0.29	P≤0.01	P≤0.01	P≤0.01	P≤0.01
PLANT HEIGHT (	first flowering – cm)				
mean	62.7	55.4	63.2	58.3	56.7
std deviation	3.70	4.55	5.27	3.73	3.90
LSD/sig	1.72	P≤0.01	ns	P≤0.01	P≤0.01
PLANT HEIGHT (	green ripening – cm)				
mean	85.8	77.8	79.4	77.3	80.9
std deviation	3.77	4.14	5.08	5.01	6.16
LSD/sig	2.0	P≤0.01	P≤0.01	P≤0.01	P≤0.01
TERMINAL LEAF	LET – petiole length (	mm)			
mean	47.1	59.0	50.3	49.7	53.1
std deviation	3.0	6.5	5.9	5.7	6.4
LSD/sig	2.4	P≤0.01	P≤0.01	P≤0.01	P≤0.01
TERMINAL LEAF	LET – lamina length (	mm)			
mean	47.1	46.7	48.1	45.5	48.2
std deviation	3.1	3.3	2.7	4.3	4.1
LSD/sig	1.5	ns	ns	P≤0.01	ns
TERMINAL LEAF	LET – lamina width (1	nm)			
mean	5.5	6.4	6.4	5.7	6.6
std deviation	0.7	0.9	0.6	0.9	0.9
LSD/sig	0.3	P≤0.01	P≤0.01	ns	P≤0.01



Fig 1 Rose – flowers and plant parts of 'Fairy Queen' with comparator 'Spevu'<sup>(b)</sup> syn Lovely Fairy<sup>(b)</sup> showing differences in flower colour and anthocyanin colouration.



Fig 2 Rose – flowers and plant parts of 'Interkuyl' with comparator 'Interlis' showing differences in flower colour, leaf glossiness and anthocyanin colouration.



Fig 3 Rose – flowers and plant parts of 'Internes' with comparator 'Interlis' showing differences in flower colour, leaf glossiness and anthocyanin colouration.



Fig 4 Rose – flowers and plant parts of 'Lydiver' with comparator 'Interlis' showing differences in flower colour and leaf glossiness.



Fig 5 Rose – flowers and plant parts of 'Nirpeter' with comparator 'Ruidriko' showing differences in flower colour and anthocyanin colouration.



Fig 6 Rose – flowers and plant parts of 'Sunlampo' with comparator 'Tennessee' showing differences in flower colour and anthocyanin colouration.



Fig 7 Rose – flowers and plant parts of 'Meibrenec'.



Fig 8 Rose – flowers and plant parts of 'Meicaflon'.



Fig 9 Rose – flowers and plant parts of 'Meidrepil'.



Fig 10 Banksia Rose – leaves and flower of 'Powder Puff' (left) with comparator 'Pearl' (centre) and *R. banksiae* (right).


Fig 11 Alstroemeria – floral parts of 'Savannah' (top) with comparator 'Minas' and 'Victoria' showing differences in tepal characteristics and filament colour.



Fig 12 Bougainvillea – 'Evita' (left) with comparators 'Purity' (centre) and 'Miski' (right) showing differences of the bract colour and leaf variegation. Grid size = 10mm.



Fig 13 Everlasting Daisy – 'Colourburst Gold' (left) with comparators 'Colourburst Pink' (centre) and 'Gold n Bronze' (right) demonstrating the difference in flower colour to 'Colourburst Pink' and difference in leaves, flowers and habit of 'Gold n Bronze' All stem specimens have the same number of nodes. Grid size = 10mm.



Fig 14 Ceanothus – leaves and flowers of 'Blue Sapphire' (left) with comparator 'Blue Cushion' (right).



Fig 15 Pittosporum – leaves of 'Cut Above' with comparators *P. undulatum* (centre) and *P. bicolor* (right).



Fig 16 Coprosma – leaf of 'Karo Red' (left) with comparators 'Yvonne' (centre) and 'Coppershine' (right).



Fig 17 Anisodontea – leaf and flower of 'African Prince' (left) with comparator 'African Princess' (right).



Fig 18 Snapdragon – leaf and flower of 'Yaprim' (left) with comparator 'Avalanche' (right).



Fig 19 Snapdragon – leaf and flower of 'Yarob' (left) with comparator A. hispanicum roseum (right).



Fig 20 Wallflower – leaf and flowers of 'Pastel Patchwork' (left) with comparator 'Apricot Delight' (right).



Fig 21 Japanese Elm – leaves of 'Kiwi Sunset' showing differences with parental form Zelkova serrata.



Fig 22 Hebe – leaves and flowers of 'Beverly Hills' (left) with comparators *H. diosmifolia* (centre) and 'Inspiration' (right).



Fig 23 Hebe – flowering shoot of 'Heebie Jeebies' (left) with comparators 'Purple Haze' (centre) and 'Inspiration' (right).



Fig 24 Grevillea – Inflorescence of 'Coastal Twilight' (left), 'Coastal Sunset' (2nd from right) with comparators 'Sunset Bronze' (2nd from left) and 'Dot Brown'<sup>()</sup> (right).



Fig 25 Grevillea – style bend of 'Crimson Yul-Lo' (upper left) and 'Coastal Dawn' (lower left) with comparators *G. banksii* Red (upper centre), 'Pink Surprise' (lower centre), 'Sylvia' (upper right) and 'Misty Pink' (lower right).



Fig 26 Baby's Breath – flowers of 'Danfesroy' (right) with comparator 'White Festival' (left).



Fig 27 Baby's Breath – flowers of 'Dangypflash' (left) with comparator 'Perfecta R11' (right).



Fig 28 Baby's Breath – flowers of 'Dangypmini' (right) with comparator 'Magic Golan' (left).



Fig 30 Bower Wattle – 'Limelight' (centre) with comparators 'Green Mist' (left) and 'Mop top' (right) showing differences in plant size.



Fig 29 Baby's Breath – flowers of 'Dangysha' (right) with comparator 'Magic Golan' (left).



Fig 31 Arizona Cypress – 'Limesheen' (left) with comparators 'Limelight' (centre) and 'Limeglow' (right) showing plant width.



Fig 32 Sugarcane – 'Q168' (bottom) with comparators 'BN81-1394' and 'RB72-454' showing culm with leaves removed (base of culm to left). Differences in the alignment, width, shape, dewaxed colour, wax band distinctiveness of the internodes are clearly visible.

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Fig 33 Sugarcane - 'Q183' (bottom) with comparators 'Q117' and 'Q165<sup>(b)</sup>' showing culm with leaves removed (base of culm to left). Differences in the alignment, shape, wax covering, and wax band distinctiveness of the internodes are clearly visible.



Fig 34 Sugarcane – 'Q184' (bottom) with comparators 'Q138' and 'Q150' showing culm with leaves removed (base of culm to left). Differences in the width, shape, dewaxed colour, wax covering and root band width of the internodes are clearly visible.



Fig 35 Sugarcane - 'Q186' (bottom) with comparators 'Q152' and 'Q174'<sup>()</sup> showing culm with leaves removed (base of culm to left). Differences in the length, width and wax covering of the internodes are clearly visible.



Fig 36 Sugarcane – 'Q187' (bottom) with comparators 'Q138' and 'Q173'<sup>()</sup> showing culm with leaves removed (base of culm to left). Differences in the alignment, length, shape, dewaxed unexposed colour, and wax covering of the internodes are clearly visible.



Fig 37 Sugarcane – 'Q188' (bottom) with comparators 'Q131' and 'Q138' showing culm with leaves removed (base of culm to left). Differences in the alignment, length, shape, dewaxed colour, wax covering and wax band width of the internodes are clearly visible.



Fig 38 Sugarcane – 'Q189' (bottom) with comparators 'Q117' and 'Q180'<sup>()</sup> showing culm with leaves removed (base of culm to left). Differences in the shape, wax covering and root band width of the internodes are clearly visible. Difference in bud shape is also visible.



Fig 39 Sugarcane – 'Q190' (bottom) with comparators 'H56-752' and 'Q160' showing culm with leaves removed (base of culm to left). Differences in the alignment, length, width, wax covering, wax band width and root band width of the internodes are clearly visible.



Fig 40 Sugarcane – 'Q191' (bottom) with comparators 'H56-752' and 'Q181'<sup>(†)</sup> showing culm with leaves removed (base of culm to left). Differences in the alignment, length, shape, wax covering, wax band distinctiveness and width of the internodes, as well as bud shape, are clearly visible.

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Fig 41 Sugarcane – 'Q192' (bottom) with comparators 'Q167'<sup>()</sup> and 'Q174'<sup>()</sup> showing culm with leaves removed (base of culm to left). Differences in the length, width, shape, colour and wax covering of the internodes are clearly visible.



Fig 42a Canola – leaves of 'BLN 1999' (upper centre) and comparators 'Surpass 400' (lower left), 'Georgie' (upper right), 'Mystic'<sup>(†)</sup> (lower right), 'Monty'<sup>(†)</sup> (upper left) and 'AG Emblem' (lower centre).



Fig 42b Canola – flowers of 'BLN 1999' (upper centre) and comparators 'Surpass 400' (upper left), 'Georgie' (upper right), 'Mystic'<sup>(†)</sup> (lower left), 'Monty'<sup>(†)</sup> (lower centre) and 'AG Emblem' (lower right).



Fig 43 Lupin – leaves (petiole and leaflets) and pods of 'Jindalee' (top centre) compared with 'Quilinock' (top left), 'Gungurru' (top right), 'Wonga'<sup>()</sup> (lower left) and 'Geebung' (lower right).



Fig 45 Oat – 'Nugene' (left) possesses 'Pc68' gene resistant to almost all-Australian pathotypes of *Puccinia coronata* (leaf rust). The leaf rust gene was transferred from 'Amagalon' (centre). Comparator 'AC Medallion'<sup>(b)</sup> syn Moola<sup>(b)</sup> showing susceptible reaction.



Fig 44 Triticale – ear of 'Tickit', labelled TX93-19-1 (top), showing its comparative greater degree of glaucosity than 'Tahara' (bottom).

# Table 21 continued

TIME OF FLOWER	LING (days from sov	wing)				
	107	103	107	111	104	
POD LENGTH (mm	ı)					
mean	60.5	62.3	60.1	60.9	56.7	
std deviation	3.81	2.99	3.93	3.43	3.76	
LSD/sig	1.42	P≤0.01	ns	ns	P≤0.01	
GRAIN – ground co	lour					
	cream	cream	cream	white	cream	
GRAIN – ornamenta	ation					
	strong	moderate	strong	very weak	strong	
GRAIN – weight of	thousand grains (g)					
mean	148	172	131	164	133	
std deviation	6.0	9.0	5.8	5.6	5.5	
LSD/sig	17	P≤0.01	ns	ns	ns	

Pittosporum bicolor x Pittosporum undulatum Pittosporum

# 'Cut Above'

Application No: 1997/278 Accepted: 22 Oct 1997. Applicant: **BE Jackson**, Keysborough, VIC.

**Characteristics** (Table 22, Figure 15) Plant: tree. Stem: colour of new growth greyed-orange 175A. Leaf: Length medium (mean 75.06mm), width medium (mean 18.77mm), shape of blade eliptical, shape of tip acute, shape of base cuneate, margin strongly undulating, colour green 137A, glossiness weak. (Note: All RHS colour chart numbers refer to 1995 edition.)

**Origin and Breeding** Open-pollination: arose as a cross between *P. undulatum* and *P. bicolor*. Hybridisation occurred in 1985. Selection criteria: 'Cut Above' was chosen on the basis of growth habit, foliage cover and shape of leaves. Propagation: a number mature stock plants were generated from this seedling through more than 3 generations by cutting propagation and were found to be uniform and stable. Breeder: B.E. Jackson, Keysborough, VIC.

**Choice of Comparators** *Pittoporum undulatum* and *Pittosporum bicolor* were chosen because they are believed to be the parent plants from which the candidate variety was originated and are also the closest known varieties. No other similar varieties of common knowledge have been identified.

**Comparative Trial** Location: Dromana, VIC, summerspring 2000. Conditions: trial conducted in pots, plants propagated from cutting, rooted cuttings planted into 175mm 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 Nil.

Description: Mark Lunghusen, Croydon, VIC.

### Table 22 Pittosporum varieties

	'Cut Above'	*P. undulatu	m*P. bicolor
STEM: COLO	UR OF NEW G	ROWTH (RH	S, 1995)
	greyed-	greyed-	yellow-
	orange	purple	green
	175A	187A	145C
LEAF: LENG	ГН (mm)		
mean	75.06	124.97	56.35
std deviation	5.98	10.52	9.70
LSD/sig	9.44	P≤0.01	P≤0.01
LEAF: WIDTH	H (mm)		
mean	18.77	44.75	10.68
std deviation	2.00	3.51	2.42
LSD/sig	3.10	P≤0.01	P≤0.01
LEAF: SHAPE	E OF BLADE		
	eliptical	eliptical	linear
LEAF: SHAPE	E OF TIP		
	acute	acuminate	acute
LEAF: UNDU	LATION OF M	ARGIN	
	strongly	undulating	revolute
	undulating		
LEAF: GLOSS	SINESS		
	weak	medium	strong

Rosa banksiae Banksia Rose

### **'Powder Puff'**

Application No: 1998/155 Accepted: 7 Sep 1998. Applicant: **Wallis's Nurseries**, Mosgiel, New Zealand. Agent: **Southern Advanced Plants**, Dromana VIC.

**Characteristics** (Table 23, Figure 10) Plant: habit climbing. Young shoot: anthocyanin colouration strong, hue of anthocyanin reddish brown to purple. Prickles: present, shape of lower side deep concave, short prickles absent or very few, long prickles few. Leaf: size medium, green

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DESCRIPTIONS

colour medium, glossiness of upper side weak. Leaflet: cross section concave, undulation of margin absent or very weak. Terminal leaflet: length of blade medium, width of blade medium, shape of base, rounded. Flowering shoot: very few. Flower pedicel: number of prickles medium. Flower bud: shape of longitudinal section broad ovate. Flower: type double, diameter large, view from above irregularly rounded, side view of upper part flat, side view of lower part flattened convex, fragrance medium. Sepal: extensions absent or very weak. Petal: size large, colour of middle zone of inner side white 155C, colour of marginal zone of inner side white 155C, spot at base absent, reflexing of margin absent or very weak. Outer stamen: colour of filament white. Seed vessel: small. (Note: all RHS colour chart numbers refer to 1995 edition).

**Origin and Breeding** Spontaneous mutation: arose from *Rosa banksiae* 'Pearl'. Mutation took place in Wallis's Nurseries, Mosgiel, New Zealand. 'Powder Puff' was chosen on the basis of flower size and fragrance and plant vigour. Propagation: a number mature stock plants were generated from this mutation through 3 generations by cutting propagation and were found to be uniform and stable. Breeder: Clive Wallis, Mosgiel, New Zealand.

**Choice of Comparators** 'Pearl' was chosen because it is the parent plant from which resulted in the mutation and *Rosa banksiae* was chosen as a similar variety of common knowledge. No other similar varieties of common knowledge have been identified.

**Comparative Trial** Location: Dromana, VIC, autumnspring 2000. Conditions: trial conducted in pots, plants propagated from cutting, rooted cuttings planted into 200mm 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	<b>Current Status</b>	Name Applied	
New Zealand	1996	Accepted	'Powder Puff'	

Description: Mark Lunghusen, Croydon, VIC.

### Table 23 Rosa varieties

	'Powder Puff'	*'Pearl'	* Rosa banksiae
YOUNG SHO	OT: ANTHOCY	ANIN COLO	URATION
	strong	weak	weak
YOUNG SHO	OT: HUE OF AN reddish brown to purple	NTHOCYANI reddish brown	N COLORATION reddish brown
PRICKLES: P	RESENCE		
	present	absent	absent
PRICKLE: SH	IAPE OF LOWE deep concave	R SIDE na	na

LONG PRICKI	LES		
	few	absent or	absent or
		very few	very few
LEAF: GREEN	COLOUR		
	medium	dark	medium
LEAF: GLOSS	INESS OF UPF	PER SIDE	
	weak	absent or	medium
		very weak	
LEAFLET: CR	USS SECTION		1. 1.1
	concave	concave	slightly concave
LEAFLEI: UN		FMARGIN	1
	absent or	absent or	weak
	very weak	very weak	
TEDMINIALLI	AELET. CILAI		
I EKMINAL LI	CAFLET: SHAI		noundad
	rounded	acute	Tounded
FLOWEDING	SHOOT		
TLOWERING	very few	many	many
	very iew	many	many
FLOWER PED	ICFI · NUMBE	R OF PRICKI	FS
TLOWERTED	medium	few	few
	meann	iew	icw
FLOWER BUIL	• SHAPE OF I	ONGITUDIN	AL SECTION
I LOWER DOL	broad ovate	ovate	ovate
	broad ovale	ovale	ovale
FLOWER · NUI	MBER OF PET	ALS	
I LOW LICE TO	many	medium	medium
	many	mearan	mearann
FLOWER DIA	METER		
	lanaa	10000	small
	large	large	omun
	large	large	Sinan
FLOWER: SID	E VIEW OF UI	PPER PART	
FLOWER: SID	E VIEW OF UI	PPER PART flattened	convex
FLOWER: SID	E VIEW OF UI flat	PPER PART flattened convex	convex
FLOWER: SID	E VIEW OF UF	PPER PART flattened convex	convex
FLOWER: SID	E VIEW OF UI flat	PPER PART flattened convex	convex
FLOWER: SID	E VIEW OF U flat E VIEW OF LO flattened	PPER PART flattened convex DWER PART flat	flattened
FLOWER: SID	E VIEW OF U flat E VIEW OF LC flattened convex	PPER PART flattened convex DWER PART flat	convex flattened convex
FLOWER: SID	E VIEW OF U flat E VIEW OF LC flattened convex GRANCE	PPER PART flattened convex DWER PART flat	convex flattened convex
FLOWER: SID	E VIEW OF UF flat E VIEW OF LC flattened convex GRANCE medium	PPER PART flattened convex DWER PART flat very weak	flattened convex very weak
FLOWER: SID	E VIEW OF U flat E VIEW OF LC flattened convex GRANCE medium	PPER PART flattened convex DWER PART flat very weak	convex flattened convex very weak
FLOWER: SID	E VIEW OF UF flat E VIEW OF LC flattened convex GRANCE medium	PPER PART flattened convex DWER PART flat very weak	convex flattened convex very weak
FLOWER: SID FLOWER: SID FLOWER FRA PETAL: SIZE	E VIEW OF UF flat E VIEW OF LC flattened convex GRANCE medium large	PPER PART flattened convex DWER PART flat very weak large	convex flattened convex very weak small
FLOWER: SID FLOWER: SID FLOWER FRA PETAL: SIZE PETAL: COLO	E VIEW OF UF flat E VIEW OF LC flattened convex GRANCE medium large UR OF MIDDI	PPER PART flattened convex DWER PART flat very weak large LE ZONE OF I	convex flattened convex very weak small NNER SIDE
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FLOWER: SID FLOWER: SID FLOWER FRA PETAL: SIZE PETAL: COLO (RHS,1995)	E VIEW OF UF flat E VIEW OF LC flattened convex GRANCE medium large UR OF MIDDI white 155C	PPER PART flattened convex DWER PART flat very weak large LE ZONE OF I white 155C	convex flattened convex very weak small NNER SIDE yellow 4D
FLOWER: SID FLOWER: SID FLOWER FRA PETAL: SIZE PETAL: COLO (RHS,1995)	E VIEW OF UF flat E VIEW OF LC flattened convex GRANCE medium large UR OF MIDDI white 155C	PPER PART flattened convex DWER PART flat very weak large LE ZONE OF I white 155C	convex flattened convex very weak small NNER SIDE yellow 4D
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# Rose

**'Fairy Queen'** Application No: 1999/132 Accepted: 17 May 1999. Applicant: **Jan Spek Rozen B.V.** Boskoop, The Netherlands.

Agent: Grandiflora Nurseries Pty Ltd, Cranbourne, VIC.

Characteristics (Table 24, Figure 1) Plant: habit creeping, height short, width broad. Stem: anthocyanin medium, colour reddish brown. Prickles: present, shape of lower side deep concave, short prickle number very few, long prickle number many. Leaf: small, green colour very dark, glossiness very strong, cross section slight concave, undulation of margin medium. Terminal leaflet: length short (28-44 mm), width narrow (16-21 mm), shape of base obtuse. Flowering shoots: number of flowers very many. Flower pedicel: number of hairs many. Flower bud: round. Flower: double, number of petals many (53-74), diameter very small (32-39 mm), shape from above round, side view of upper part flattened convex, side view of lower part concave, fragrance very weak, sepal extensions weak, petal size very small, petal colour middle zone of inner side dark pink (RHS 57B, 1995), petal colour marginal zone of inner side dark pink (RHS 57B, 1995), spot at base of inner side present, size large, colour (RHS 155C, 1995), petal colour middle zone of outer side dark pink (RHS 57B, 1995), petal colour marginal zone of outer side dark pink (RHS 57B, 1995), spot at base of outer side present, size medium, colour (RHS 157C, 1995), reflexing of margin very strong, undulation of margin weak. Outer stamen: predominate colour of filament green. Seed vessel: small. Hip shape: longitudinal section pitcher shaped. Time of beginning of flowering medium. Flowering: almost continuous.

**Origin and Breeding** Spontaneous mutation: parent 'Spevu'<sup>(b)</sup> syn Lovely Fairy<sup>(b)</sup> having creeping, rambling habit, multi flowering shoots. Mutation was observed in Boskoop, The Netherlands in the early 90's. From this selection four plants were propagated by cutting, and grown to test characteristics. From these plants a further 100 cuttings were taken and planted for extended trials. In 1995 the first commercial trial was introduced in Germany. Later trial plants were sent to agents for overseas trials. Selection criteria: flower colour, suitability for use as a bedding / pot plant. Propagation: by vegetative cuttings were found to be uniform and stable. 'Fairy Queen' will be propagated by vegetative cuttings from the stock plants. Breeder: Jan Spek Rozen B.V, Boskoop, The Netherlands.

**Choice of Comparators** 'Spevu'<sup>(b)</sup> syn Lovely Fairy<sup>(b)</sup> was considered for the comparative trial, as this is a similar variety and the parent of 'Fairy queen'. 'The Fairy' was also considered but rejected due to flower colour.

**Comparative Trial** Comparator: 'Spevu'<sup>(b)</sup> syn Lovely Fairy<sup>(b)</sup>. Location: Cranbourne, VIC, Jun 1999- Nov 2000, Measurements and other data were collected Nov 2000. Conditions: trial conducted in a glasshouse, plants propagated from cutting, rooted cuttings planted into 330mm pots filed with scoria, nutrition maintained by complete nutrient supplied through fertigation, pest and disease treatments applied as required. Trial design: rows of 10 metre flower beds of each variety arranged end to end. Measurements: from twenty plants at random. One sample per plant.

# Prior Applications and Sales

Country	Year	Current Status	Name Applied
EU	1995	Granted	'Fairy Queen'
Germany	1995	Granted	'Fairy Queen'

First sold in Germany in 1997. First Australian sale in 2000.

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

# Table 24 Rosa varieties

	'Fairy Queen'	*'Spevu'Ø syn Lovely FairyØ
YOUNG SHOOT: ANTH	OCYANIN COLOU	JRATION
(shoot about 20 cm long)		
	medium	weak
FLOWER: DIAMETER (	(mm)	
mean	35.1	39.2
std deviation	2.234	2.348
LSD/sig	2.62	P≤0.01
FLOWER: SIDE VIEW (	OF LOWER PART	
(fully opened flower)		
	concave	flat
PETAL COLOUR (RHS,	1995)	
middle zone inner side	57B	67C
marginal zone inner side	57B	67C
middle zone outer side	57B	67D
marginal zone outer side	57B	67D
PETAL: COLOUR OF SI	POT AT BASE (RHS	S 1995)
inner side	155C	157D
outer side	157C	157B
PETAL: REFLEXING O	F MARGIN (1 = ver	ry weak, 9 =
(er, suong)	9	5

# 'Interkuyl'

Application No: 1999/174 Accepted: 13 Jul 1999. Applicant: **Interplant B.V**, Leersum, The Netherlands. Agent: **Grandiflora Nurseries Pty Ltd**, Cranbourne, VIC.

**Characteristics** (Table 25, Figure 2) Plant: habit narrow, height short, width narrow. Stem: anthocyanin medium, colour bronze to reddish brown. Prickles: absent Leaf: medium, green colour dark, glossiness strong, cross section flat, undulation of margin medium. Terminal leaflet: length medium (57 - 79 mm), width broad (26 - 50 mm), shape of base round. Flowering shoots: number of flowers many. Flower pedicel: number of hairs medium (33 - 47), diameter medium (46 - 55 mm), shape from above irregularly rounded, side view of upper part flattened convex, side view of lower part flat, fragrance weak, sepal extensions very weak, petal size small, petal colour middle zone of inner side dark pink (RHS 57B, 1995), petal colour

marginal zone of inner side dark pink (RHS 57B, 1995), spot at base of inner side present, size medium, colour (RHS 155C, 1995), petal colour middle zone of outer side dark pink (RHS 57C, 1995), petal colour marginal zone of outer side dark pink (RHS 57C, 1995), spot at base of outer side present, size medium, colour (RHS 155C, 1995), reflexing of margin strong, undulation of margin medium. Outer stamen: predominate colour of filament Orange. Seed vessel: small. Hip shape: longitudinal section pitcher shaped.

**Origin and Breeding** Spontaneous mutation: parent 'Interlis' syn Lydia. The parental variety is characterised by narrow upright habit, multi flowering shoots. Mutation was observed in Leersum, The Netherlands in 1995. From this selection few plants were propagated, from these plants the steadiest stems were selected, during 1996 this variety was part of a field trial and in 1997 the first plants were sold for cut flower production. Selection criteria: flower colour, number of flowers per flowering shoot, suitability for cut flower use. Propagation: by both vegetative cuttings and budded onto a rootstock and were found to be uniform and stable. 'Interkuyl' will be commercially propagated by vegetative cuttings or buds from the stock plants. Breeder: Ir. A.J.H. van Doesum, Leersum, The Netherlands.

**Choice of Comparators** 'Interlis' syn Lydia was considered for the comparative trial, as this is a similar variety and the parent of 'Interkuyl'. This was the only comparator considered as the plants are very similar with the exception of flower colour.

**Comparative Trial** Location: Cranbourne, VIC, Jun 1999-Nov 2000, Measurements and other data were collected Nov 2000. Conditions: trial conducted in a glasshouse, plants propagated from cutting, rooted cuttings planted into 330mm pots filed with scoria, nutrition maintained by complete nutrient supplied through fertigation, pest and disease treatments applied as required. Trial design: rows of 10 metre flower beds of each variety arranged side by side. Measurements: from twenty plants at random. One sample per plant.

### **Prior Applications and Sales**

Country	Year	<b>Current Status</b>	Name Applied
The Netherlands	1995	Granted	'Interkuyl'
Canada	2000	Applied	'Interkuyl'
Japan	1997	Applied	'Interkuyl'

First sold in The Netherlands in 1997. First Australian sale Jan 2000.

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

### Table 25 Rosa varieties

	'Interkuyl'	* <b>'Interlis'</b> syn <b>Lydia</b>
YOUNG SHOOT: ANTH (shoot about 20 cm long)	OCYANIN COL	OURATION
(	medium	very weak
LEAF GREEN COLOUR	(at time of first	flowering)
	dark	medium

LEAF GLOSSINESS OF	UPPER SIDE	
	strong	medium
	1 _ vom vool 0 _ v	(any strong)
SEPAL: EXTENSIONS (	1 = very weak, 9 = v	(ery strong)
	1	3
PETAL COLOUR (RHS,	1995)	
middle zone inner side	57B	49D
marginal zone inner side	57B	49D
middle zone outer side	57C	49C
marginal zone outer side	57C	49C
PETAL: SIZE OF SPOT	AT BASE $(1 = very)$	small, 9 =
very large)	· · ·	
Inner side	5	7
outer side	5	7
OUTER STAMEN: PREI FILAMENT	DOMINANT COLO	UR OF
	orange	vellow

### 'Internes'

Application No: 1999/175 Accepted: 13 Jul 1999. Applicant: **Interplant B.V**, Leersum, The Netherlands. Agent: **Grandiflora Nurseries Pty Ltd**, Cranbourne, VIC.

Characteristics (Table 26, Figure 3) Plant: habit narrow, height short, width narrow. Stem: anthocyanin weak, colour bronze to reddish brown. Prickles: present, shape of lower side deep concave, short prickles very few, long prickles few. Leaf: medium, green colour dark, glossiness strong, cross section flat, undulation of margin medium. Terminal leaflet: length medium (49-67 mm), width medium (27-39 mm), shape of base abtuse. Flowering shoots: number of flowers many. Flower pedicel: number of hairs medium. Flower bud: ovate. Flower: double, number of petals medium (45-61), diameter small (38-47 mm), shape from above irregularly rounded, side view of upper part flattened convex, side view of lower part flattened convex, fragrance weak, petal size small, petal colour middle zone of inner side cream (fading from RHS 27D to RHS 155C, 1995), petal colour marginal zone of inner side cream (fading from RHS 27D to RHS 155C, 1995), spot at base of inner side absent, petal colour middle zone of outer side cream (fading from RHS 27D to RHS 155C, 1995), petal colour marginal zone of outer side cream (fading from RHS 27D to RHS 155C, 1995), spot at base of outer side absent, reflexing of margin medium, undulation of margin medium. Outer stamen: predominate colour of filament orange. Seed vessel: small. Hip shape: longitudinal section pitcher shaped.

**Origin and Breeding** Spontaneous mutation: parent 'Interlis' syn Lydia. The parental variety is characterised by narrow upright habit, multi flowering shoots. Mutation was observed in Leersum, The Netherlands in 1995. From this selection few plants were propagated, from these plants the firmest stems were selected, during 1996 this variety was part of a field trial and in 1997 the first plants were sold for cut flower production. Selection criteria: flower colour, number of flowers per flowering shoot, suitability for cut flower use. Propagation: by both vegetative cuttings and budded onto a rootstock and were found to be uniform and stable. 'Internes' will be commercially propagated by

vegetative cuttings or budded onto rootstocks from the stock plants. Breeder: Ir. A.J.H. van Doesum, Leersum, The Netherlands.

**Choice of Comparators** 'Interlis' syn Lydia was considered for the comparative trial as this is a similar variety and the parent of 'Internes'. This was the only comparator considered as the plants are very similar with the exception of flower colour.

**Comparative Trial** Location: Cranbourne, VIC, Jun 1999-Nov 2000, Measurements and other data were collected Nov 2000. Conditions: trial conducted in a glasshouse, plants propagated from cutting, rooted cuttings planted into 330mm pots filed with scoria, nutrition maintained by complete nutrient supplied through fertigation, pest and disease treatments applied as required. Trial design: rows of 10 metre flower beds of each variety arranged end to end. Measurements: from twenty plants at random. One sample per plant.

### **Prior Applications and Sales**

**Country Year Current Status Name Applied** The Netherlands 1996 Granted 'Internes' First sold in The Netherlands in 1997. First Australian sale Jan 2000.

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

### Table 26 Rosa varieties

	'Internes'	* <b>'Interlis'</b> syn Lydia
YOUNG SHOOT A	ANTHOCYANIN COLOU	JRATION
(1 = very weak, 9 =	= very strong)	
	3	1
LONG PRICKLES	(number, $1 = \text{very few}, 9$	= very many)
	3	1
LEAF GREEN CO	LOUR (at the time of firs	t flowering)
	dark	medium
LEAF GLOSSINE	SS OF UPPER SIDE	
	strong	medium
LEAFLET CROSS	SECTION	
	flat	slight concave
TERMINAL LEAF	FLET: LENGTH OF BLA	DE (mm)
mean	56.9	54.5
std deviation	7.370	7.442
LSD/sig	0.79	P≤0.01
TERMINAL LEAF	FLET SHAPE OF BASE	
	obtuse	rounded
FLOWER SIDE VIEW OF LOWER PART (fully opened flower)		
,	flattened convex	flat
SEPAL EXTENSIO	DNS (1 = very weak, 9 = $\frac{1}{1}$	very strong)
	-	-

FLOWER: DIAMETER (	mm)	
mean	42.4	49.9
std deviation	3.307	3.510
LSD/sig	3.89	P≤0.01
PETAL COLOUR (RHS,	1995)	
middle zone inner side	27D – 155C,	49D
marginal zone inner side	27D – 155C,	49D
middle zone outer side	27D – 155C	49C
marginal zone outer side	27D – 155C	49C
PETAL SPOT AT BASE (	(1 = absent, 9 = pres)	ent)
inner side	1	9
outer side	1	9
PETAL SIZE OF SPOT A	T BASE	
inner side	absent	large
outer side	absent	large
PETAL COLOUR OF SP	OT AT BASE (RHS	, 1995)
inner side	absent	155C
outer side	absent	155C
PETAL REFLEXING OF	MARGIN $(1 = very$	weak, 9 = very
	5	7

### 'Lydiver'

Application No: 1999/173 Accepted: 13 Jul 1999. Applicant: **Interplant B.V**, Leersum, The Netherlands. Agent: **Grandiflora Nurseries Pty Ltd**, Cranbourne, VIC.

Characteristics (Table 27, Figure 4) Plant: habit narrow. height short, width narrow. Stem: anthocyanin very weak, colour bronze to reddish brown. Prickles: present, shape of lower side deep concave, short prickles very few, long prickles very few. Leaf: medium, green colour dark, glossiness strong, cross section flat, undulation of margin medium. Terminal leaflet: length medium (51-65 mm), width medium (27-35 mm), shape of base abtuse. Flowering shoots: number of flowers many. Flower pedicel: number of hairs medium. Flower bud: ovate. Flower: double, number of petals medium (31-41), diameter small (36-48 mm), shape from above irregularly rounded, side view of upper part flattened convex, side view of lower part flattened convex, fragrance weak, sepal extensions weak, petal size small, petal colour middle zone of inner side pink (RHS 67D, 1995), petal colour marginal zone of inner side pink (RHS 68C, 1995), spot at base of inner side present, size large, colour (RHS 155C, 1995), petal colour middle zone of outer side pink (RHS 68C, 1995), petal colour marginal zone of outer side pink (RHS 68C, 1995), spot at base of outer side present, size large, colour (RHS 155C, 1995), reflexing of margin strong, undulation of margin medium. Outer stamen: predominate colour of filament Orange. Seed vessel: small. Hip shape: longitudinal section pitcher shaped.

**Origin and Breeding** Spontaneous mutation: parent 'Interlis' syn Lydia. The parental variety is characterised by narrow upright habit, multi flowering shoots. Mutation was observed in Leersum, The Netherlands in 1994. From this selection few plants were propagated, from these plants the steadiest stems were selected, during 1995 this variety was

part of a field trial and in 1996 the first plants were sold for cut flower production. Selection criteria: flower colour, number of flowers per flowering shoot, suitability for cut flower use. Propagation: by both vegetative cuttings and budded onto a rootstock and were found to be uniform and stable. 'Lydiver' will be commercially propagated by vegetative cuttings or buds from the stock plants. Breeder: Ir. A.J.H. van Doesum, Leersum, The Netherlands.

**Choice of Comparators** 'Interlis' syn Lydia was considered for the comparative trial as this is a similar variety and the parent of 'Lydiver'. This was the only comparator considered as the plants are very similar with the exception of flower colour.

**Comparative Trial** Location: Cranbourne, VIC, Jun 1999-Nov 2000, Measurements and other data were collected November 2000. Conditions: trial conducted in a glasshouse, plants propagated from cutting, rooted cuttings planted into 330mm pots filed with scoria, nutrition maintained by complete nutrient supplied through fertigation, pest and disease treatments applied as required. Trial design: rows of 10 metre flower beds of each variety arranged side by side. Measurements: from twenty plants at random. One sample per plant.

## **Prior Applications and Sales**

Country	Year	<b>Current Status</b>	Name Applied
The Netherlands	1994	Granted	'Lydiver'
Belgium	1998	Granted	'Lydiver'
Japan	1997	Applied	'Lydiver'

First sold in The Netherlands in 1996. First Australian sale Jan 2000.

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

	'Lydiver'	* <b>'Interlis'</b> syn Lydia
LEAF GREEN COLOU	R (at time of first flo	owering)
	dark	medium
LEAF GLOSSINESS O	F UPPER SIDE	
	strong	medium
LEAFLET CROSS SEC	TION	
	flat	slight concave
TERMINAL LEAFLET	SHAPE OF BASE	
	obtuse	rounded
FLOWER SIDE VIEW (	OF LOWER PART (	fully opened
	flattened convex	flat
FLOWER: DIAMETER	(mm)	
mean	40.2	49.9
std deviation	3.225	3.510
LSD/sig	3.85	P≤0.01
PETAL COLOUR (RHS	, 1995)	
middle zone inner side	67D	49D

marginal zone inner side	68C	49D
marginal zone outer side	68C	49C

OUTER STAMEN: PREDOMINANT COLOUR OF FILAMENT orange vellow

# 'Nirpeter'

Application No: 1999/287 Accepted: 22 Oct 1999. Applicant: Lux Riviera s.r.l, Latte Di Ventimiglia, Italy Agent: Grandiflora Nurseries Pty Ltd, Cranbourne, VIC.

Characteristics (Table 28, Figure 5) Plant: habit bushy, height tall, width medium. Stem: anthocyanin strong, colour bronze to reddish brown. Prickles: present, shape of lower side concave, short prickle number very few, long prickle number medium. Leaf: large, green colour dark, glossiness medium, cross section slight concave, undulation of margin weak. Terminal leaflet: length long (72-82 mm), width broad(42-53 mm), shape of base rounded. Flowering shoots: number of flowers few. Flower pedicel: number of hairs few. Flower bud: broad - ovate. Flower: double, number of petals medium (38-74), diameter large (92-22 mm), shape from above irregularly round, side view of upper part flattened convex, side view of lower part flattened convex, fragrance very weak, sepal extensions weak, petal size large, petal colour middle zone of inner side dark pink (RHS 58B, 1995), petal colour marginal zone of inner side pink (RHS 66A, 1995), spot at base of inner side present, size small, colour yellow (RHS 5C, 1995), petal colour middle zone of outer side pink (RHS 61D, 1995), petal colour marginal zone of outer side pink (RHS 61D, 1995), spot at base of outer side present, size small, colour yellow (RHS 3D, 1995), reflexing of margin strong, undulation of margin weak. Outer stamen: predominate colour of filament orange. Seed vessel: medium. Hip shape: longitudinal section funnel shaped.

**Origin and Breeding** Spontaneous mutation: parent 'Nirpventyel'. The parental variety is characterised by tall bushy plant habit. The mutation was observed in La Prensa, Ecuador in the early 90's. From this selection a few plants were propagated, and grown to better assess the stability of the new colour. From these plants the first three generations were tested to evaluate the best clones to be used as starting material for further generations. Selection criteria: flower colour, suitability for use as a cut flower. Propagation: Initially by grafted plants over Rosa Indica Major and Rosa Canina, and were found to be uniform and stable. 'Nirpeter' will be propagated by vegetative cuttings, or budded onto rootstocks from the stock plants. Breeder: Peter Ullrich, La Prensa, Ecuador.

**Choice of Comparators** 'Ruidriko'<sup>(b)</sup> syn Vivaldi<sup>(b)</sup>, and 'Sonia' were considered for the comparative trial. 'Ruidriko'<sup>(b)</sup> was chosen because of its similar growth characteristics, flower size and shape. 'Sonia' was initially considered for its flower colour. However it was discarded due to its dissimilar growth characteristics, flower size, shape and the colour was not in the same range as 'Nirpeter'. The parent 'Nirpventyel' is a different colour described as "Orange Caminium slightly more orange and red carrot". **Comparative Trial** Location: Cranbourne, VIC, Oct 1999-Nov 2000, Measurements and other data were collected December 2000. Conditions: trial conducted in a glasshouse, plants propagated from cutting, rooted cuttings of 'Nirpeter' were planted into 330mm pots filed with scoria, whilst rooted cuttings of 'Ruydriko' were grown in an adjoining glass house with the same controlled environment conditions in the soil. Nutrition maintained by complete nutrient supplied through fertigation, pest and disease treatments applied as required. Trial design: rows of 30 metre flower beds of each variety. Measurements: from twenty plants at random. One sample per plant.

### **Prior Applications and Sales**

Country	Year	<b>Current Status</b>	Name Applied
Ecuador	1998	Applied	'Nirpeter'
France	1999	Applied	'Nirpeter'

First Australian sale in 2000.

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

Table 28 Rosa varieties

	'Nirpeter'	* <b>'Ruidriko'</b> ¢ syn <b>Vivaldi</b> ¢
YOUNG SHOOT: HUE (	OF ANTHOCYANIN	N COLOURATION
(shoot about 20 cm long)	hronzo roddich	raddich brown
	brown	purple
LONG PRICKLES NUM	BER $(1 = \text{verv few.})$	9 = very many
	5	7
LEAFLET: CROSS SEC	ΓΙΟΝ	
	slight concave	concave
LEAFLET: UNDULATIO	ON OF MARGIN (1	= very weak, 9 =
very strong)		
	7	5
FLOWER: FRAGRANCE	E(1 = very weak, 9)	= very strong)
	1	5
FLOWER: NUMBER OF	PETALS	
mean	53.0	39.6
std deviation	10.698	8.030
LSD/sig	11.93	P≤0.01
FLOWER: DIAMETER (	mm)	
mean	106.6	93.6
std deviation	10.167	5.337
LSD/sig	10.25	P≤0.01
PETAL COLOUR (RHS,	1995)	
middle zone inner side	58B	159C
marginal zone inner side	66A	49D
middle zone outer side	61D	159D
marginal zone outer side	61D	68D
PETAL: SPOT AT BASE	(1 = absent, 9 = pre	sent)
inner side	9	1
outer side	9	1
PETAL: REFLEXING O	F MARGIN $(1 = ver)$	ry weak, 9 = very
C/	7	5

# 'Sunlampo' syn Bellisima

Application No: 1999/289 Accepted: 22 Oct 1999.

Applicant: Frank Bart Shuurman, Whenuapai, New Zealand.

Agent: Grandiflora Nurseries Pty Ltd, Cranbourne, VIC.

Characteristics (Table 29, Figure 6) Plant: habit bushy, height medium, width medium. Stem: anthocyanin weak, colour reddish brown. Prickles: present, shape of lower side deep concave, short prickle number very few, long prickle number medium. Leaf: medium, green colour medium, glossiness weak, cross section slight concave, undulation of margin strong. Terminal leaflet: length medium (62-79 mm), width medium (41-52 mm), shape of base rounded. Flowering shoots: number of flowers few. Flower pedicel: number of hairs few. Flower bud: broad - ovate. Flower: double, number of petals many (49-79), diameter medium (73-83 mm), shape from above irregularly round, side view of upper part flattened convex, side view of lower part flat, fragrance weak, sepal extensions weak, petal size small, petal colour middle zone of inner side orange (RHS 23B, 1995), petal colour marginal zone of inner side orange (RHS 23B, 1995), spot at base of inner side present, size small, colour yellow (RHS 13B, 1995), petal colour middle zone of outer side orange to yellow (RHS 16B, 1995), petal colour marginal zone of outer side orange (RHS 23B, 1995), spot at base of outer side present, size small, colour yellow (RHS 13C, 1995), reflexing of margin strong, undulation of margin weak. Outer stamen: predominate colour of filament yellow. Seed vessel: size small. Hip shape: longitudinal section pitcher shaped.

**Origin and Breeding** Controlled pollination: seed parent 'Kordaba'<sup>(b)</sup> syn Lambada<sup>(b)</sup> x pollen parent 'Pot o' Gold'. The seed parent was characterised by medium sized bushy habit, medium green leaves, single flowering stems, with star shaped flowers of orange colour (RHS 30C, 1995). The pollen parent 'Pot o' Gold' was characterised by short broad bushy habit, medium green leaves, multi flowering stems of yellow flowers with approximately 30 petals. Hybridisation took place in Whenuapai, New Zealand in the mid 90's. This cross was part of a broad cross-pollination program. The initial seedling was selected and sent to overseas agents. Selection criteria: flower colour and suitability as a cut flower. 'Sunlampo' will be commercially propagated by vegetative cuttings or budded from the stock plants. Breeder: Frank Bart Schuurman, Whenuapai, New Zealand.

**Choice of Comparators** 'Tennessee' was used for the comparative trial. 'Tennessee' is a widely available commercial variety and was chosen for its bushy growth habit and similar coloured flowers. The seed parent was rejected due to colour differences in the flowers, whereas 'Tennessee' was closer. The pollen parent was rejected, as it showed little similarity with 'Sunlampo'.

**Comparative Trial** Location: Cranbourne, VIC, Oct 1999-Dec 2000, Measurements and other data were collected December 2000. Conditions: trial conducted in a glasshouse, plants propagated from cutting, rooted cuttings planted into 330mm pots filed with scoria, nutrition maintained by complete nutrient supplied through fertigation, pest and disease treatments applied as required. Trial design: rows of 30 metre flower beds of each variety. Measurements: from twenty plants at random. One sample per plant.

Prior Applications and Sales			
Country	Year	<b>Current Status</b>	Name Applied
New Zealand	1998	Applied	'Sunlampo'

First sold in New Zealand in 1998. First Australian sale in 2000

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

### Table 29 Rosa varieties

	'Sunlampo'	*'Tennessee'
YOUNG SHOOT: ANTH	OCYANIN COLOU	RATION
(1 = very weak, 9 = very)	strong)	
(shoot about 20 cm long)	3	5
LEAF: SIZE (1 = very sn	nall, 9 = very large)	
```	5	7
LEAF: GREEN COLOU	R (1 = very light, 9 = 0)	= very dark)
(at time of first nowering	5	7
LEAF: GLOSSINESS OF	F UPPER SIDE $(1 =$	very weak, 9 =
(or j shong)	3	7
LEAFLET: CROSS SEC	ΓΙΟΝ	
	slight concave	flat
LEAFLET: UNDULATIO	ON OF MARGIN (1	= very weak, 9 =
very strong)	7	3
TERMINAL LEAFLET:	LENGTH OF BLAL	DE (mm)
mean	68.9	83.8
std deviation	4.630	6.426
LSD/sig	7.07	P≤0.01
TERMINAL LEAFLET	WIDTH OF BLADE	(mm)
mean	43.7	60
std deviation	3.199	6.182
LSD/sig	6.21	P≤0.01
FLOWER: NUMBER OF	F PETALS	
mean	63.5	34.1
std deviation	9.629	3.035
LSD/sig	9.01	P≤0.01
FLOWER: SIDE VIEW (	OF LOWER PART (1	fully opened
nower)	flat	flattened convex
FLOWER: FRAGRANCI	E(1 = verv weak, 9 =	= very strong)
	3	1
PETAL: SIZE $(1 = \text{very s})$	mall, 9 = very large)	 
	3	5
PETAL COLOUR (RHS,	1995)	
middle zone inner side	23B	28B
marginal zone inner side	23B	28B
middle zone outer side	16B	28C
marginal zone outer side	23B	28C

PETAL: SIZE OF SPOT AT BASE OF INNER SIDE (1 = very small, 9 = very large)			
	3	5	
PETAL: COLOUR OF S	POT AT BASE (RH	S, 1995)	
inner side	13B	9A	
outer side	13C	9B	
PETAL: REFLEXING OF MARGIN (1 = very weak, 9 = very strong)			
	7	3	
SEED VESSEL SIZE (at large)	petal fall) (1 = very	small, 9 = very	
	3	5	

### 'Meibrenec'

Application No: 1998/236 Accepted: 27 Sep 2000. Applicant: **Meilland International**, Le Cannet des Maures, France.

Agent: Kim Syrus, Melrose Park, SA.

Characteristics (Figure 7) Plant: growth habit flat bushy, height short, width broad. Stem: anthocyanin absent, prickles present, prickle shape of lower side concave. Leaf: size small, glossiness of upper side weak. Terminal leaflet: length short (av. 22.84mm), width narrow (av. 10.94mm). Flower: colour group pink, type double, diameter small (av. 29.38mm), almost continuous flowering, Petal: size small, colour of middle zone inner side RHS 38C (RHS ca. 27B fades from RHS 22B), marginal zone inner side RHS 38C (RHS ca. 27B fades from RHS 22B), middle zone outer side RHS 29C-D (RHS 27B), marginal zone outer side RHS 29C-D (RHS 27B). Basal spot: inner side; present, very small, colour RHS 6D, outer side; present, very small, colour RHS 6D, Seed: vessel size very small, vessel shape funnel. Flowering: almost continuous. (Note: data in parenthesis are from local observations. All RHS colour chart numbers in local observation refers to 1995 edition.

Origin and Breeding Controlled pollination: seed parent ('Meiplarzon' x 'Meitriscal') x pollen parent 'Katharina Zeimet'. The seed parent is characterised by broad bushy growth, yellow blooms, mild fragrance and repeat flowering. The pollen parent is characterised by broad bushy growth, double blooms, medium deep green foliage and repeat flowering. Hybridisation took place in Le Cannet des Maures, France in 1987. From this cross 'Meibrenec' was chosen in 1989 on the basis of flower type. Selection criteria: double flower type, short broad bushy habit, almost continuous flowering, Propagation: 20 plants were grafted through conventional T-budding method onto virus indexed indica major rootstock, all plants were found to be uniform and stable. 'Meibrenec' will be commercially propagated by both budded and vegetative cutting methods. Breeder: Alain Meilland, Le Cannet des Maures, France.

**Choice of Comparators** The qualified person considers 'Pretty Polly' to be the closest known variety of common knowledge. However, this variety differs significantly from 'Meibrenec' by more upright and bushy habit, larger terminal leaf length and width and more glossy on the leaf upper side. **Comparative Trial** Description based on official overseas test report obtained from Geves, Sophia –Antipolis, France. OS Test Report No. 12622. The overseas test report was confirmed by observations made on locally grown material in Myponga, SA. The data from the local observation is shown in parenthesis in the Characteristics section.

### **Prior Applications and Sales**

Country	Year	<b>Current Status</b>	Name Applied
Israel	1995	Applied	'Meibrenec'
EU	1995	Granted	'Meibrenec'
USA	1997	Applied	'Meibrenec'

First sold in The Netherlands in Nov 1994. First Australian sale 1998.

Description: Kim Syrus, Melrose Park, SA.

# 'Meicaflon'

Application No: 1998/235 Accepted: 27 Sep 2000. Applicant: **Meilland International,** Le Cannet des Maures, France.

Agent: Kim Syrus, Melrose Park, SA.

Characteristics (Figure 8) Plant: growth habit flat bushy, height short, width broad. Stem: anthocyanin absent, prickles present, prickle shape of lower side concave. Leaf: size small, glossiness of upper side weak. Terminal leaflet: length short (av. 20.35mm), width narrow (av. 11.69mm). Flower: colour group pink, type double, diameter small (av. 35.36mm), almost continuous flowering, Petal: size small, colour of middle zone inner side RHS 38C (RHS 62C-B), marginal zone inner side RHS 38C (RHS 62CB), middle zone outer side RHS 29C-D (RHS 62D), marginal zone outer side RHS 29C-D (RHS 62D). Basal spot: inner side; present, very small, colour RHS 6D, outer side; present, very small, colour RHS 6D, Seed: vessel size very small, vessel shape funnel. Flowering: almost continuous. (Note: data in parenthesis are from local observations. All RHS colour chart numbers in local observation refers to 1995 edition.)

Origin and Breeding Controlled pollination: seed parent 'The Fairy' x pollen parent 'Katharina Zeimet' x 'Meijikatar'. The seed parent is characterised by broad bushy growth, light pink blooms and repeat flowering. The pollen parent is characterised by upright bushy growth, double blooms, medium glossy deep green foliage and repeat flowering. Hybridisation took place in Le Cannet des Maures, France in 1987. From this cross 'Meicaflon' was chosen in 1989 on the basis of flower type. Selection criteria: double flower type, short broad bushy habit, almost continuous flowering, Propagation: 20 plants were grafted through conventional T- budding method onto virus indexed indica major rootstock, all plants were found to be uniform and stable. 'Meicaflon' will be commercially propagated by both budded and vegetative cutting methods. Breeder: Alain Meilland, Le Cannet des Maures, France.

**Choice of Comparators** The qualified person considers 'The Fairy' to be the closest known variety of common knowledge. However, this variety differs significantly from 'Meicaflon' by more broad and bushy habit and larger terminal leaf length and width. **Comparative Trial** Description based on official overseas test report obtained from Geves, Sophia –Antipolis, France. OS Test Report No. 12621. The overseas test report was confirmed by observations made on locally grown material in Myponga, SA. The data from the local observation is shown in parenthesis in the Characteristics section.

### **Prior Applications and Sales**

Country	Year	<b>Current Status</b>	Name Applied
Israel	1995	Applied	'Meicaflon'
EU	1995	Granted	'Meicaflon'
USA	1997	Applied	'Meicaflon'

First sold in The Netherlands in Nov 1994. First Australian sale 1998.

Description: Kim Syrus, Melrose Park, SA.

# 'Meidrepil'

Application No: 1998/237 Accepted: 27 Sep 2000. Applicant: **Meilland International**, Le Cannet des Maures, France.

Agent: Kim Syrus, Melrose Park, SA.

Characteristics (Figure 9) Plant: growth habit flat bushy, height short, width broad. Stem: anthocyanin very weak, hue bronze to reddish brown, prickles present, prickle shape of lower side concave. Leaf: size small, glossiness of upper side weak. Terminal leaflet: length short (av. 24.27mm), width narrow (av. 12.07mm). Flower: colour group yellow, type double, diameter small (av. 32.56mm), almost continuous flowering, Petal: size small, colour of middle zone inner side RHS 12B (ca. RHS 12B), marginal zone inner side RHS 12B (ca RHS 12B), middle zone outer side RHS 12B-C (ca. RHS 12C), marginal zone outer side RHS 12B-C (ca. RHS 12C). Basal spot: inner side; absent, outer side; absent, Seed: vessel size very small, vessel shape pitcher. Flowering: almost continuous. (Note: data in parenthesis are from local observations. All RHS colour chart numbers in local observation refers to 1995 edition.)

Origin and Breeding Controlled pollination: seed parent ('Meiplarzon' x 'Meitriscal') x pollen parent 'Katharina Zeimet'. The seed parent is characterised by broad bushy growth, yellow blooms, mild fragrance and repeat flowering. The pollen parent is characterised by broad bushy growth, double blooms, glossy deep green foliage and repeat flowering. Hybridisation took place in Le Cannet des Maures, France in 1987. From this cross 'Meidrepil' was chosen in 1989 on the basis of flower type. Selection criteria: double flower type, short broad bushy habit, almost continuous flowering, Propagation: 20 plants were grafted through conventional T-budding method onto virus indexed indica major rootstock, all plants were found to be uniform and stable. 'Meidrepil' will be commercially propagated by both budded and vegetative cutting methods. Breeder: Alain Meilland, Le Cannet des Maures, France.

**Choice of Comparators** The qualified person considers 'Golden Angel' to be the closest known variety of common knowledge. However, this variety differs significantly from 'Meidrepil' by more upright and bushy habit, larger terminal leaf length and width and less petals.

**Comparative Trial** Description based on official overseas test report obtained from Geves, Sophia –Antipolis, France. OS Test Report No. 12620. The overseas test report was confirmed by observations made on locally grown material in Myponga, SA. The data from the local observation is shown in parenthesis in the Characteristics section.

#### **Prior Applications and Sales**

Country	Year	<b>Current Status</b>	Name Applied
Israel	1995	Applied	'Meidrepil'
EU	1995	Granted	'Meidrepil'
USA	1997	Applied	'Meidrepil'

First sold in The Netherlands in Nov 1994. First Australian sale 1998.

Description: Kim Syrus, Melrose Park, SA.

Saccharum hybrid Sugarcane

### 'Q168'

Application No: 1997/047 Accepted: 12 Mar 1997. Applicant: **Bureau of Sugar Experiment Stations,** Indooroopilly, QLD

Characteristics (Table 30, Figure 32) Ploidy: cytologically complex polyploid and aneuploid interspecific sugarcane (Saccharum spp. hybrid). Plant: perennial grass with medium growth habit, few to medium tillers per stool. Leaf canopy is very light to light. Suckers are very few in number. Stem: Culm height was not able to be measured because of profuse flowering, but appears to be short to medium. Alternate internodes of a culm are arranged in a medium zigzagged pattern. Length of longest internode on bud side is short with mean length approximately 16.4 cm (range 14.4 to 21.8 cm) and side opposite bud is short with mean length approximately 15.9 cm (range 13.6 to 21.4 cm). Diameter of longest internode central and perpendicular to bud is thin with mean approximately 23.7 mm (range 18.9 to 28.4 mm). Diameter of longest internode central and dissecting bud is very thin to thin with mean approximately 23.8 mm (range 18.5 to 28.7 mm). Internodes are cylindrical to weakly bobbin-shaped and round in cross-section. Colour of dewaxed internode is vellow-green (RHS 144B) exposed and yellow-green (RHS 151A to 152D) unexposed. Wax covering of internode is medium, with wax band indistinct and medium in width. Growth cracks are very few. Cork cracks are absent. Bud groove is conspicuous, medium to long and deep. Root band width on bud side is medium (8.3-9.9 mm). Bud is of strong prominence, triangular pointed in shape, and with base near to leaf scar and tip level to above the growth ring. Bud width excluding wings is wide and bud wing is medium in width. Leaf scar is prominent and is oblique descending towards bud. Growth ring is flush. Leaf: Lamina measurements were not made because of profuse flowering. However, lamina of TVD leaf appears to be short, narrow, and curved near middle in attitude. Midrib of lamina at longitudinal midpoint appears to be narrow and lamina width to midrib width ratio is medium. Leaf sheath of TVD leaf appears to be short and sheaths of senescent leaves have weak to medium adherence to culm. Hairs on abaxial leaf sheath surface (Group 57) are absent to very few. Ligule is crescentiform in shape and medium at midrib section. Cilia along the free margin of the ligule (Group 61) are dense and

long. Auricles are medium in prominence and asymmetrical. Inner or underlapping auricle is deltoid in shape and medium in size. Outer or overlapping auricle is transitional in shape. Flowering: The flower is an open panicle and flowering is discontinuous. Seed: The seed or fruit is a caryopsis. Disease resistance: 'Q168' is very highly resistant to Fiji Disease Virus, resistant-intermediate to Leaf Scald (*Xanthomonas albilineans* (Ashby) Dowson), intermediate to Red Rot (*Glomerella tucumanensis* (Spego) Arx and Mueller, and susceptible to very highly susceptible to *Pachymetra* Root Rot. Other characteristics: Fibre quantity and quality are acceptable for milling purposes (impact reading 0.56, shear strength 30.2, short fibre 51.8%). In addition, 'Q168' was uniquely identified by DNA fingerprinting using microsatellite markers.

Origin and Breeding Controlled pollination: 'Q168' is the progeny of a controlled biparental cross made at Meringa (Gordonvale), QLD, between the female parent 'CP51-21' and the male parent '66C807'. Seed was collected from the pollinated female inflorescence and stored for germination in 1985. 'Q168' is very highly resistant to Fiji disease (1) while 'CP51-21' is resistant to resistant-intermediate (3-4) and '66C807' is highly resistant (2). 'Q168' is intermediate (5) to red rot while 'CP51-21' is very highly resistant (1). 'Q168' has been evaluated and selected by BSES in yield trials in NSW. Standard commercial varieties were also included in the trials for comparative purposes. Cane yield, 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. After an initial seedling stage (using seed from the cross), all subsequent stages have involved vegetative propagation.

**Choice of Comparators** 'BN81-1394' and 'RB72-454' were chosen as they are the most similar varieties of common knowledge grown in NSW. Together these varieties accounted for 12% (0.3 million t) of the New South Wales crop in 1999. The male parent '66C807' has been discarded from the parent collection so could not be included as a comparator. The female parent 'CP51-21' was not included as a comparator. 'Q168' is more resistant to Fiji disease virus (1) than 'CP51-21' (3-4) and is more susceptible to red rot (5) than 'CP51-21' (1).

**Comparative Trial** Location: Conducted at Meringa Sugar Experiment Station (17° 12' S, 145° 45' E), Gordonvale, QLD. The trial was planted 22 Sep 1999 and harvested in Oct 2000. DUS data were recorded in mid May 2000. Conditions: Clones were propagated from vegetative cuttings and grown under field conditions. Soil type: Clifton. Watering regime: Rainfed. Chemicals: The fungicide Shirtan was applied at 400 ml per hectare at planting. SuSCon (14 kg/ha) was applied at planting. Fertilisers: DAP (120 kg/ha) was applied at planting. Muriate of potash (140 kg/ha) was applied on 15 November 1999 and urea (100 kg/ha) was applied on 25 November 1999. Total nutrients were: N - 67.6 kg/ha; P - 24 kg/ha; K - 70 kg/ha. Trial design: Clones were grown in a randomised complete block design with three replicates. Plots were single row by 10m, with 1.5m between rows. Measurements: Taken from up to 15 stalks sampled randomly per plot.

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# **Prior Applications and Sales**

First Australian sale in Jul 1996.

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

# Table 30 Saccharum varieties

	'Q168'	*'BN81-1394	`*'RB72-454'
GROWTH HA	BIT		
	medium	semi-erect	medium
TILLERING			
	few to	few	few
	medium		
LEAF CANOP	Y		
	very light	very light	very light
	to light	to light	
ALIGNMENT	OF INTERNOI	DES	
	medium	strongly	weakly
	zigzagged	zigzagged	zigzagged
INTERNODE	WIDTH – Centr	al Perpendicula	ar to Bud (mm)
LSD ( $P \le 0.01$ )	= 2.38	h	
mean	23.7 <sup>D</sup>	22.6 <sup>D</sup>	29.7 <sup>a</sup>
std deviation	2.4 thin	2.1	3.1
	thin	to thin	very thick
INTERNODE	WIDTH – Centr	al Dissecting B	aud (mm) LSD (P
$\leq 0.01$ ) = 2.59		ai Disseeting L	
mean	23.8 <sup>b</sup>	23.6 <sup>b</sup>	30.8 <sup>a</sup>
std deviation	2.6	2.4	3.5
	very thin	very thin	very thick
	to thin	to thin	
INTERNODE	SHAPE		
	cylindrical	concave-	cylindrical to
	to weakly	convex	conoidal
	bobbin-shaped	1	
INTERNODE	CROSS-SECTIO	ON	
	round	oval	round
INTERNODE	DEWAXED CO	LOUR (RHS)	- Exposed
	yellow-	yellow-	yellow-green
	green (144B)	green (147B)	(152B) and
		and greyed-	greyed-orange
		red (178A) to	(166A)
		greyed-purple (187A)	
			Unavnosod
INTERINUDE	vellow-	vellow-	vellow-green
	green (151A)	green (144C)	(145A to 146D)
	to 152D)	8	and greyed-
			yellow (160B)
INTERNODE	WAX COVERIN	NG	
	medium	medium to	medium
		heavy	
WAX BAND D	ISTINCTIVEN	ESS	
	indistinct	medium	distinct

WAX BAND W	IDTH		
	medium	very narrow	medium
GROWTH CRA	CKS		
	very few	absent	very few to few
CORK CRACK	S		
	absent	absent	very few
BUD GROOVE	PRESENCE		
	conspicuous	absent	absent
BUD GROOVE	LENGTH		
	medium to	n/a	n/a
	long		
BUD GROOVE	DEPTH		
	deep	n/a	n/a
ROOT BAND W	VIDTH – Bud S	Side	
	medium	medium	narrow
BUD – PROMI	strong	strong to	weak to
	strong	very strong	medium
BUD – SHAPE	triongular	round	ovata to
	pointed	Tound	triangular
	1		pointed
BOD - POSITIO	JN OF BASE ( near	Above Leaf Sc	ar) medium
		Tubbu	
BUD – POSITIO	ON OF TIP (Re	elative to Grow	th Ring)
	level to	slightly	below
	above	below	
BUD WIDTH (I	Excluding Wing	gs)	
	wide	medium	narrow
BUD WING WI	DTH		
202 1110 11	medium	wide	very narrow
LEAF SCAR PI	ROMINENCE	prominent	medium
	prominent	prominent	meanum
LEAF SCAR SI	LOPE		
	oblique	oblique	oblique
GROWTH RING	G		
	flush	swollen	slightly swollen
LAMINA ATTI	TUDE curve near	curve near	bent near
	middle	tip	tip
		1	1
LEAF SHEATH	- ADHEREN	CE TO CULM	1.
	weak to	strong	medium
HAIR GROUP	57 – OCCURR	ENCE	
	absent to	absent	absent
	very iew		
LIGULE HEIGH	HT		
	medium	medium	wide

# Table 30 continued

HAIR GROUP	61 – DENSITY dense	Y/OCCURREN medium to dense	CE dense
AURICLE – PF	ROMINENCE ( medium	Second Fully U inconspicuous	Jnfurled Leaf) s prominent
AURICLE SHA	APE – ULP deltoid	transitional	lanceolate
AURICLE SIZI	E – ULP medium	n/a	medium to large

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

# 'Q183'

Application No: 2000/182 Accepted: 19 Jul 2000. Applicant: **Bureau of Sugar Experiment Stations**, Indooroopilly, QLD.

Characteristics (Table 31, Figure 33) Ploidy: cytologically complex polyploid and aneuploid interspecific sugarcane (Saccharum spp. hybrid). Plant: perennial grass with semierect growth habit, medium tillers per stool. Leaf canopy is very light to light. Suckers are very few in number. Stem: Culms are short to medium with mean length to top visible dewlap (TVD) approximately 2.55 m (range 1.82 to 2.94 m). Alternate internodes of a culm are arranged in a strongly zigzagged pattern. Length of longest internode on bud side is short to medium with mean length approximately 16.5 cm (range 12.6 to 21.1 cm) and side opposite bud is short with mean length approximately 16.0 cm (range 12.3 to 20.3 cm). Diameter of longest internode central and perpendicular to bud is medium to thick with mean approximately 26.6 mm (range 21.0 to 32.2 mm). Diameter of longest internode central and dissecting bud is medium to thick with mean approximately 27.2 mm (range 21.7 to 33.1 mm). Internodes are slightly bobbin-shaped and slightly oval in cross-section. Colour of dewaxed internode is yellow-green (RHS 144A to 152A) and greyed-orange (RHS166A) exposed and white (RHS 155A) and greenyellow (RHS 1D) unexposed. Wax covering of internode is light to medium, with wax band distinct and wide. Growth cracks are few to medium. Cork cracks are very few. Bud groove is inconspicuous in prominence, very short in length and very shallow in depth. Root band width on bud side is medium (7.7-10.0 mm). Bud is of medium to strong prominence, ovate in shape, and with base near to leaf scar and tip level to below the growth ring. Bud width excluding wings is wide and bud wing is wide. Leaf scar has medium prominence and is oblique descending towards bud. Growth ring is flush to weakly swollen. Leaf: Lamina of TVD leaf is long in length with mean approximately 1.54 m (range 1.42 to 1.70 m), wide to very wide in width with mean approximately 47.8 mm (range 41.2 to 55.3 mm) at longitudinal midpoint, and curved near tip in attitude. Midrib of lamina at longitudinal midpoint is medium in width with mean 3.8 mm (range 3.0 to 5.4 mm). Lamina width to midrib width ratio is medium with mean approximately 12.8 (range 9.1 to 15.1). Leaf sheath of TVD leaf is medium with mean length approximately 31.0 cm (range 28.0 to 34.0 cm). Sheaths of senescent leaves have weak adherence to culm. Hairs on abaxial leaf sheath surface (Group 57) are medium in density and long. Ligule is crescentiform in shape and medium at midrib section. Cilia along the free margin of the ligule (Group 61) are medium to dense and short. Auricles are inconspicuous and asymmetrical. Inner or underlapping auricle is deltoid in shape and very small to small in size. Outer or overlapping auricle is transitional in shape. Flowering: The flower is an open panicle and flowering is discontinuous. Seed: The seed or fruit is a caryopsis. Disease resistance: 'Q183' is resistant-intermediate to intermediate to Leaf Scald (Xanthomonas albilineans (Ashby) Dowson), susceptible to Red Rot (Glomerella tucumanensis (Spego) Arx and Mueller, very highly resistant to Pachymetra Root Rot. Other characteristics: Fibre quantity and quality are acceptable for milling purposes (impact reading 0.44, shear strength 22.6, short fibre 56.3%). In addition, 'Q183' was uniquely identified by DNA fingerprinting using microsatellite markers.

Origin and Breeding Controlled pollination: 'Q183' is the progeny of a controlled biparental cross made at Meringa (Gordonvale), QLD, between the female parent 'Q124' and the male parent 'H56-752'. Seed was collected from the pollinated female inflorescence and stored for germination in 1989. 'Q183' is resistant-intermediate to intermediate to leaf scald while 'Q124' is very highly to highly resistant and 'H56-752' is very highly resistant to resistant. 'Q183' 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. Cane yield, 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. After an initial seedling stage (using seed from the cross), all subsequent stages have involved vegetative propagation.

**Choice of Comparators** 'Q117' and 'Q165'<sup>(b)</sup> were chosen as they are the most similar varieties of common knowledge grown in the Burdekin region. Together, these two varieties accounted for 38.9% (3.3 million t) of the Burdekin crop in 1999. The male parent 'H56-752' was included as a comparator. 'Q124' was not included as a comparator. 'Q183' is less resistant to leaf scald (4-5) than 'H56-752' (1-3) or 'Q124' (1-2) and is more resistant (1) to *Pachymetra* root rot than 'Q124' (5).

Comparative Trial Location: Conducted at Meringa Sugar Experiment Station (17° 12' S, 145° 45' E), Gordonvale, QLD. The trial was planted 22 Sep 1999 and harvested in Oct 2000. DUS data were recorded in mid May 2000. Conditions: Clones were propagated from vegetative cuttings and grown under field conditions. Soil type: Clifton. Watering regime: Rainfed. Chemicals: The fungicide Shirtan was applied at 400 ml per hectare at planting. SuSCon (14 kg/ha) was applied at planting. Fertilisers: DAP (120 kg/ha) was applied at planting. Muriate of potash (140 kg/ha) was applied on 15 Nov 1999 and urea (100 kg/ha) was applied on 25 Nov 1999. Total nutrients were: N - 67.6 kg/ha; P - 24 kg/ha; K - 70 kg/ha. Trial design: Clones were grown in a randomised complete block design with three replicates. Plots were single row by 10m, with 1.5m between rows. Measurements: Taken from up to 15 stalks sampled randomly per plot.

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# **Prior Applications and Sales**

First Australian sale in Jul 1999.

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

# Table 31 Saccharum varieties

	'Q183'	*'Q117'	*'Q165'¢	*'H56-752'
GROWTH H	ABIT semi-erect	erect	medium	medium
TILLERING	medium	few	medium	medium
LEAF CANO	)PY			
	very light	light to	light to	light
		meannin	meanum	
SUCKERING	G 		<b>f</b>	£
	very lew	very lew	very lew	lew
CULM HEIC	GHT (m) LSD	$P (P \le 0.01) :$	= 0.43	
mean	2.55 <sup>b</sup>	2.48 <sup>b</sup>	2.82 <sup>ab</sup>	3.20 <sup>a</sup>
std deviation	0.25	0.25	0.15	0.39
	short to	short to	medium	tall to very
	medium	medium	to tall	tall
ALIGNMEN	T OF INTER	NODES		
	strongly	medium	medium	strongly
	zigzagged	zigzagged	zigzagged	zigzagged
INTERNODI = $1.57$	E LENGTH -	- Bud Side (	cm) LSD (P	≤ 0.01)
mean	16.5 <sup>b</sup>	14.2 <sup>c</sup>	16.7 <sup>b</sup>	19.5 <sup>a</sup>
std deviation	1.82	1.22	1.37	1.12
sta av fation	short to	very short	short to	medium to
	medium		medium	long
$\overline{\text{INTERNOD}}$ $(P \le 0.01) =$	E LENGTH - 1.61	- Side Oppos	site Bud (cm	) LSD
mean	16.0 <sup>b</sup>	13.7 <sup>c</sup>	16.2 <sup>b</sup>	19.1 <sup>a</sup>
std deviation	1.79	1.29	1.25	1.12
	short	very short	short to medium	long
INTERNOD	E SHAPE			
	slightly	tumescent	bobbin-	bobbin-
	bobbin-		shaped	shaped
	shaped		1	1
	E CROSS-SE	CTION		
INTERNOOD	slightly	oval	oval	round to
	oval			slightly oval
			$(\mathbf{RHS}) = \mathbf{Fx}$	nosed
INTERIODI	yellow-	yellow-	greyed-	yellow-
	green	green	orange	green
	(144A to	(146C)	(166A to	(144A
	152A) and		177A)	to 151A)
	greved-			,
	orange (166	A)		
	E DEWAXEI		(RHS) = Un	exposed
	white	vellow-	vellow-	vellow-
	(155A)	green	green	green
	and	(1450	144R	(144R)
	oreen-	to $146C$	to $145\Delta$	
	yellow (1D)			

NEEDVOD		EDDIG		
INTERNOD	light to medium	heavy	medium	heavy
WAX BAND	DISTINCTI	VENESS indistinct	distinct	indistinct
WAX BAND	WIDTH wide	wide	medium	wide
GROWTH C	RACKS few to medium	very few	very few	absent
CORK CRA	CKS very few	absent	absent	few
BUD GROO	VE PRESENC	CE inconspicuou	s absent	inconspicuous
BUD GROO	VE LENGTH very short	very short to short	n/a	short
BUD GROO	VE DEPTH very shallow	very shallow to shallow	n/a	very shallow
ROOT BANI	D WIDTH – H medium	Bud Side medium	narrow	medium
BUD – PROI	MINENCE medium to strong	medium	weak to medium	medium
BUD – SHA	PE ovate	rhomboid to ovate	triangular pointed	ovate
BUD – POSI	TION OF BA near	ASE (Above) near to medium	Leaf Scar) fused	medium to high
BUD – POSI	TION OF TII level to below	P (Relative to level to above	o Growth Rin above	ng) level to slightly below
BUD WIDTH	H (Excluding wide	Wings) narrow to medium	medium	very wide
BUD WING	WIDTH wide	narrow to medium	medium	very wide
GROWTH R	ING flush to weakly swollen	flush	flush	swollen
LAMINA LE mean std deviation	ENGTH (TVE 1.54 <sup>a</sup> 0.07 long	D Leaf) (m) I 1.31 <sup>b</sup> 0.14 short	$LSD (P \le 0.0)$ $1.39^{ab}$ 0.08 short to	(1) = 0.17 $1.51^{a}$ 0.10 long

medium

DESCRIPTIONS

LAMINA W	IDTH (Longit	udinal Midp	oint) (mm) I	$LSD (P \le$
mean	47 8 <sup>a</sup>	42.7ab	37 0b	41 3b
std deviation	3.1	1.9	1.7	2.8
	wide to	medium	narrow	medium
	very wide	to wide		
LAMINA W	IDTH/MIDRI	B WIDTH F	RATIO	
	medium	medium	low to	medium
			medium	
LAMINA AT	TITUDE			
	curve	curve	curve	curve near
	near tip	near	near	middle
		middle	middle	
LEAF SHEA	TH – ADHEI	RENCE TO	CULM	
	weak	weak	medium	weak
HAIR GROU	P 57 – OCCU	JRRENCE		
	medium	sparse	absent	very sparse
HAIR GROU	JP 57 – LENC	ЭТН		
	long	medium	n/a	short to
				medium
LIGULE HE	IGHT			
	medium	medium	medium	wide
HAIR GROU	JP 61 – DENS	SITY/OCCU	RRENCE	
	medium to	sparse to	medium	medium
	dense	medium		
AURICLE –	PROMINEN	CE (Second	Fully Unfurle	ed Leaf)
	inconspicuous	medium	prominent	prominent
			•	
AURICLE SI	HAPE – ULP			
	deltoid	lanceolate	lanceolate	lanceolate
AURICLE SI	HAPE – OLP			
	transitional	deltoid	transitional	transitional
AURICLE SI	ZE – ULP			
	very small	small	large	medium
	to small		0	

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

### 'Q184'

Application No: 2000/183 Accepted: 19 Jul 2000. Applicant: **Bureau of Sugar Experiment Stations,** Indooroopilly, QLD.

**Characteristics** (Table 32, Figure 34) Ploidy: cytologically complex polyploid and aneuploid interspecific sugarcane (*Saccharum* spp. hybrid). Plant: perennial grass with semierect 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 2.40 m (range 1.78 to 3.03 m). 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 19.3 cm perpendicular to bud is medium to thick with mean approximately 26.4 mm (range 19.5 to 32.0 mm). Diameter of longest internode central and dissecting bud is medium to thick with mean approximately 27.2 mm (range 20.2 to 39.5 mm). Internodes are bobbin-shaped and oval in crosssection. Colour of dewaxed internode is yellow-green (RHS 152A to 152B) exposed and yellow-green (RHS 151B to 153D) unexposed. Wax covering of internode is medium to heavy, with wax band distinct and narrow. Growth cracks are absent. Cork cracks are very few. Bud groove is absent. Root band width on bud side is medium (9.0-10.9 mm). Bud is of medium prominence, ovate or obovate in shape, and with base near to leaf scar and tip level with the growth ring. Bud width excluding wings is narrow and bud wing is wide. Leaf scar is prominent and is oblique descending towards bud. Growth ring is depressed. Leaf: Lamina of TVD leaf is medium to long in length with mean approximately 1.48 m (range 1.20 to 1.67 m), medium to wide in width with mean approximately 43.3 mm (range 34.0 to 50.4 mm) at longitudinal midpoint, and curved near tip in attitude. Midrib of lamina at longitudinal midpoint is medium to wide in width with mean 4.1 mm (range 3.1 to 7.1 mm). Lamina width to midrib width ratio is low to medium with mean approximately 10.7 (range 6.6 to 13.8). Leaf sheath of TVD leaf is long to very long with mean length approximately 34.6 cm (range 31.0 to 38.0 cm). Sheaths of senescent leaves have weak adherence to culm. Hairs on abaxial leaf sheath surface (Group 57) are medium in density and short. Ligule is crescentiform in shape and medium at midrib section. Cilia along the free margin of the ligule (Group 61) are medium to dense and short. Auricles are prominent and asymmetrical. Inner or underlapping auricle is lanceolate in shape and large in size. Outer or overlapping auricle is transitional in shape. Flowering: The flower is an open panicle and flowering is discontinuous. Seed: The seed or fruit is a caryopsis. Disease resistance: 'Q184' is very highly resistant to Fiji Disease Virus, resistant to Leaf Scald (Xanthomonas albilineans (Ashby) Dowson), intermediate to Red Rot (Glomerella tucumanensis (Spego) Arx and Mueller, highly resistant to Sugarcane Mosaic Virus, and highly resistant to Pachymetra Root Rot. Other characteristics: Fibre quantity and quality are acceptable for milling purposes (impact reading 0.57, shear strength 30.4, short fibre 50.4%). In addition, 'Q184' was uniquely identified by DNA fingerprinting using microsatellite markers.

(range 15.0 to 23.2 cm) and side opposite bud is long with mean length approximately 19.3 cm (range 14.7 to 23.0 cm). Diameter of longest internode central and

**Origin and Breeding** Controlled pollination: 'Q184' is the progeny of a controlled biparental cross made at Meringa (Gordonvale), QLD, between the female parent '60S7493' and the male parent '66C807'. Seed was collected from the pollinated female inflorescence and stored for germination in 1985. 'Q184' is highly resistant to Pachymetra root rot (2) while '60S7493' is highly to very highly susceptible (8-9) and '66C807' is susceptible to highly susceptible (7-8). 'Q184' 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. Cane yield, 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. After an initial seedling stage (using seed from the cross), all subsequent stages have involved vegetative propagation.

**Choice of Comparators** 'Q138' and 'Q150' were chosen as they are the most similar varieties of common knowledge grown in the southern region. Together these varieties accounted for 11.0% (0.8 million t) of the southern region crop in 1999. Both parents have been discarded from the parent collection so could not be included as comparators. 'Q184' is more resistant (2) to *Pachymetra* root rot than either of the parents (7-9).

Comparative Trial Location: Conducted at Meringa Sugar Experiment Station (17º 12' S, 145º 45' E), Gordonvale, QLD. The trial was planted 22 Sep 1999 and harvested in Oct 2000. DUS data were recorded in mid May 2000. Conditions: Clones were propagated from vegetative cuttings and grown under field conditions. Soil type: Clifton. Watering regime: Rainfed. Chemicals: The fungicide Shirtan was applied at 400 ml per hectare at planting. SuSCon (14 kg/ha) was applied at planting. Fertilisers: DAP (120 kg/ha) was applied at planting. Muriate of potash (140 kg/ha) was applied on 15 November 1999 and urea (100 kg/ha) was applied on 25 November 1999. Total nutrients were: N – 67.6 kg/ha; P – 24 kg/ha; K - 70 kg/ha. Trial design: Clones were grown in a randomised complete block design with three replicates. Plots were single row by 10m, with 1.5m between rows. Measurements: Taken from up to 15 stalks sampled randomly per plot.

### **Prior Applications and Sales**

First Australian sale in Sep 1999.

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

#### Table 32 Saccharum varieties

	'Q184'	*'Q138'	*'Q150'
GROWTH HAB	IT		
	semi-erect	semi-erect	medium
TILLERING			
	medium	medium	many
LEAF CANOPY	ζ		
	very light	light to	medium
	to light	medium	
SUCKERING			
	very few	very few	very few
		to few	
ALIGNMENT (	OF INTERNOI	DES	
	weakly	weakly	medium to
	zigzagged	zigzagged	strongly
			zigzagged
INTERNODE L = 1.57	ENGTH – Buc	d Side (cm) LS	D (P ≤ 0.01)
mean	19.3 <sup>a</sup>	19.9 <sup>a</sup>	16.9 <sup>b</sup>

std deviation	2.18 medium to long	2.35 long	1.81 short to medium		
INTERNODE LENGTH – Side Opposite Bud (cm) LSD ( $P \le 0.01$ ) = 1.61					
mean	19.3 <sup>a</sup>	19.7 <sup>a</sup>	16.5 <sup>b</sup>		
std deviation	2.24	2.29	1.84		
	long	long	short to medium		
INTERNODE S	HAPE				
	bobbin- shaped	conoidal	cylindrical		
INTERNODE C	ROSS-SECTIO	DN			
	oval	round	round		
INTERNODE D	EWAXED CO	LOUR (RHS) -	- Exposed		
	yellow-	yellow-	greyed-orange		
	green	green	(174A		
	(152A to 152B)	(144A)	to 174B)		
INTERNODE D	EWAXED CO	LOUR (RHS) -	- Unexposed		
	yellow-	greyed-	yellow-		
	green	yellow	green		
	(151B to	(160A)	(146D to		
	153D)		150C)		
INTERNODE W	AX COVERIN	IG			
	medium to	light	light		
	heavy				
WAX BAND DI	STINCTIVEN	ESS			
	distinct	distinct	medium		
WAX BAND W	IDTH				
	narrow	medium	very wide		
GROWTH CRA	CKS				
	absent	few to	numerous		
		medium			
CORK CRACKS	5				
	very few	very few	few to		
	-		medium		
BUD GROOVE	PRESENCE				
	absent	inconspicuous	inconspicuous		
ROOT BAND W	/IDTH – Bud S	lide			
	medium	narrow	narrow		
	JENCE				
BUD – FROMIN	medium	medium to	medium to		
	moulum	meanum to	incurum to		
		strong	strong		
BUD - SHAPE		strong	strong		
BUD – SHAPE	ovate or	rhomboid	round		
BUD – SHAPE	ovate or obovate	rhomboid	round		
BUD – SHAPE	ovate or obovate	strong rhomboid	round		
BUD – SHAPE BUD – POSITIC	ovate or obovate DN OF BASE (	strong rhomboid Above Leaf Sc fused to	round ar)		
BUD – SHAPE BUD – POSITIC	ovate or obovate DN OF BASE ( near	strong rhomboid Above Leaf Sc fused to near	round ar) near		

# Table 32 continued

BUD – POSITIO	ON OF TIP (Re level	lative to Growt below	h Ring) level to above
BUD WIDTH (I	Excluding Wing narrow	gs) narrow	medium
BUD WING WI	DTH wide	medium	medium
LEAF SCAR PF	ROMINENCE prominent	medium	medium
GROWTH RING	G depressed	flush to swollen	flush
LAMINA LENC mean std deviation	GTH (TVD Lea 1.48 <sup>a</sup> 0.12 medium to long	f) (m) LSD (P 1.50 <sup>a</sup> 0.11 long	$\leq 0.01) = 0.17$ 1.23 <sup>b</sup> 0.07 very short
LAMINA WIDT ( $P \le 0.01$ ) = 5.10 mean	TH (Longitudin 0 43.3 <sup>b</sup>	al Midpoint) (n 50.1 <sup>a</sup>	nm) LSD 48.6 <sup>ab</sup>
std deviation	4.1 medium to wide	3.7 very wide	2.3 wide to very wide
$\frac{1}{(P < 0.01)} = 0.7$	H (Longitudina	l Midpoint) (m	m) LSD
mean std deviation	4.1 <sup>ab</sup> 0.7 medium to wide	4.7 <sup>a</sup> 0.4 wide to very wide	3.5 <sup>b</sup> 0.4 narrow to medium
LAMINA WID7	TH/MIDRIB W low to medium	IDTH RATIO low to medium	medium
LAMINA ATTI	TUDE curve near tip	bent near tip	curve near tip
LEAF SHEATH	– ADHERENG weak	CE TO CULM weak to medium	weak
LENGTH OF T mean std deviation	VD LEAF SHE 34.6 <sup>a</sup> 1.7 long to very long	EATH (cm) LSI 31.0 <sup>b</sup> 2.9 medium	$P(P \le 0.01) = 2.8$ 31.2 <sup>b</sup> 1.6 medium
HAIR GROUP S	57 – OCCURRI medium	ENCE very sparse	absent
HAIR GROUP S	57 – LENGTH short	medium	n/a
LIGULE HEIGH	HT medium	wide	medium
AURICLE -PRC	MINENCE (So prominent	econd Fully Un prominent	furled Leaf) inconspicuous
AURICLE SHA	PE – ULP lanceolate	lanceolate	transitional

AURICLE SHAPE – OLI	P	
transition	nal lanceolate	transitional
AURICLE SIZE – ULP		
large	medium to	n/a
AURICLE SIZE – OLP		
n/a	medium to large	n/a

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

# 'Q186'

Application No: 2000/184 Accepted: 19 Jul 2000. Applicant: **Bureau of Sugar Experiment Stations,** Indooroopilly, QLD.

Characteristics (Table 33, Figure 35) Ploidy: cytologically complex polyploid and aneuploid interspecific sugarcane (Saccharum spp. hybrid). Plant: perennial grass with semierect growth habit, few tillers per stool. Leaf canopy is medium. Suckers are few in number. Stem: Culms are short to medium with mean length to top visible dewlap (TVD) approximately 2.54 m (range 2.04 to 3.04 m). 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 16.3 cm (range 13.4 to 20.3 cm) and side opposite bud is short to medium with mean length approximately 16.2 cm (range 13.4 to 20.2 cm). Diameter of longest internode central and perpendicular to bud is thin with mean approximately 22.9 mm (range 18.8 to 26.6 mm). Diameter of longest internode central and dissecting bud is thin with mean approximately 23.9 mm (range 19.7 to 28.1 mm). Internodes are bobbinshaped and round in cross-section. Colour of dewaxed internode is yellow-green (RHS 143A to 144A) exposed and yellow-green (RHS 145A) unexposed. Wax covering of internode is light to medium, with wax band indistinct and narrow. Growth cracks are absent. Cork cracks are absent. Bud groove is absent. Root band width on bud side is narrow (7.0-8.1 mm). Bud is of weak to medium prominence, ovate in shape, and with base near to leaf scar and tip level with the growth ring. Bud width excluding wings is very narrow and bud wing is narrow. Leaf scar is prominent and oblique descending towards bud. Growth ring is swollen. Leaf: Lamina of TVD leaf is very short to short in length with mean approximately 1.28 m (range 1.14 to 1.46 m), medium in width with mean approximately 40.3 mm (range 31.8 to 46.9 mm) at longitudinal midpoint, and bent near tip in attitude. Midrib of lamina at longitudinal midpoint is narrow to medium in width with mean 3.4 mm (range 2.8 to 3.9 mm). Lamina width to midrib width ratio is medium with mean approximately 12.0 (range 9.4 to 14.7). Leaf sheath of TVD leaf is very short with mean length approximately 27.7 cm (range 24.0 to 32.0 cm). Sheaths of senescent leaves have weak adherence to culm. Hairs on abaxial leaf sheath surface (Group 57) are very sparse to sparse in density and short. Ligule is crescentiform in shape and wide at midrib section. Cilia along the free margin of the ligule (Group 61) are dense and short. Auricles are medium in prominence 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: The flower is an open panicle and flowering is discontinuous. Seed: The seed or fruit is a caryopsis. Disease resistance: 'Q186' is very highly resistant to Leaf Scald (*Xanthomonas albilineans* (Ashby) Dowson) and highly resistant to Red Rot (*Glomerella tucumanensis* (Spego) Arx and Mueller. Other characteristics: Fibre quantity and quality are acceptable for milling purposes (impact reading 0.44, shear strength 25.0, short fibre 68.0%). In addition, 'Q186' was uniquely identified by DNA fingerprinting using microsatellite markers.

Origin and Breeding Controlled pollination: 'Q186' is the progeny of a controlled biparental cross made at Meringa (Gordonvale), Q, between the female parent 'Q117' and the male parent '66N2008'. Seed was collected from the pollinated female inflorescence and stored for germination in 1987. 'Q186' and 'Q117' are very highly resistant (1) to Leaf Scald, while '66N2008' is highly resistant (2). 'Q186' 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. Cane yield, 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. After an initial seedling stage (using seed from the cross), all subsequent stages have involved vegetative propagation.

**Choice of Comparators** 'Q152' and 'Q174<sup>(b)</sup>' were chosen as they are the most similar varieties of common knowledge grown in the Northern region, and the female parent 'Q117' was also included. Together, these three varieties accounted for 18.9% (2.1 million t) of the Northern region crop in 1999. The male parent '66N2008' was not included as a comparator as it has been discarded from the parent collection. It is more susceptible (6-7) to *Pachymetra* root rot than Q186 (1-2).

Comparative Trial Location: Conducted at Meringa Sugar Experiment Station (17º 12' S, 145º 45' E), Gordonvale, QLD. The trial was planted 22 Sep 1999 and harvested in Oct 2000. DUS data were recorded in mid May 2000. Conditions: Clones were propagated from vegetative cuttings and grown under field conditions. Soil type: Clifton. Watering regime: Rainfed. Chemicals: The fungicide Shirtan was applied at 400 ml per hectare at planting. SuSCon (14 kg/ha) was applied at planting. Fertilisers: DAP (120 kg/ha) was applied at planting. Muriate of potash (140 kg/ha) was applied on 15 Nov 1999 and urea (100 kg/ha) was applied on 25 Nov 1999. Total nutrients were:  $\tilde{N} - 67.6$  kg/ha; P - 24 kg/ha; K - 70 kg/ha. Trial design: Clones were grown in a randomised complete block design with three replicates. Plots were single row by 10m, with 1.5m between rows. Measurements: Taken from up to 15 stalks sampled randomly per plot.

### **Prior Applications and Sales**

First Australian sale in Jul 1999.

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

### Table 33 Saccharum varieties

	'Q186'	*'Q117'	*'Q152'	*'Q174'¢
GROWTH H	ABIT			
	semi-erect	erect	medium	semi-erect
LEAF CANO	)PY			
	medium	light to	very light	very light
		medium	to light	to light
SUCKERING	 J			
	few	very few	medium	very few
		D (D < 0.01)	- 0.42	
mean	$2.54^{a}$	$2.48^{a}$	$2.82^{a}$	n/a
std deviation	0.23	0.25	0.26	n/a
	short to	short to	medium	n/a
	medium	medium	to tall	
ALIGNMEN	T OF INTER	RNODES		
	weakly	medium	weakly	medium
	zigzagged	zigzagged	zigzagged	zigzagged
INTERNOD	E LENGTH	– Bud Side (	cm) LSD (P	≤ 0.01)
= 1.57	16.2b	11 20	18 18	14 cbc
std deviation	1 56	14.2	1 78	1 41
sta ac rianon	short	very short	medium	very short
		5		to short
INTERNOD	E LENGTH -	- Side Oppos	site Bud (cm	) LSD
$(P \le 0.01) =$	1.61	Side oppo		) 202
mean	16.2 <sup>b</sup>	13.7 <sup>c</sup>	18.2 <sup>a</sup>	14.3 <sup>c</sup>
std deviation	1.48	1.29	1.81	1.47
	snort to medium	very snort	to long	to short
			to long	
INTERNOD	E WIDTH –	Central Perp	endicular to	Bud (mm)
LSD ( $P \leq 0.0$	(1) = 2.58 22  ob	27 0a	24 0b	28 1a
std deviation	2.1	3.4	2.0	2.3
	thin	medium	thin to	thick to
		to thick	medium	very thick
	E WIDTH –	Central Diss	ecting Bud (1	mm) LSD
$(P \le 0.01) = 1$	2.59	central Diss	cetting Dud (i	
mean	23.9 <sup>c</sup>	28.6 <sup>ab</sup>	25.7 <sup>bc</sup>	28.8 <sup>a</sup>
std deviation	2.3	3.9	2.3	2.6
	thin	thick	thin to	thick
			medium	
INTERNOD	E SHAPE			
	bobbin-	tumescent	slightly	weakly
	shaped		bobbin-	conoidal to
			shaped	tumescent
INTERNOD	E CROSS-SE	ECTION		
	round	oval	oval	round to
				weakly oval
INTERNOD	E DEWAXE	D COLOUR	(RHS) – Exp	posed
	yellow-	yellow-	yellow-	yellow-
	green	green	green	green
	(143A to 144A)	(146C)	(146C)	(146B  to 152A)
	144A)			132A)

# **Table 33 continued**

INTERNODI	E DEWAXED	COLOUR	(RHS) – Une	xposed
	yellow-	yellow-	yellow-	yellow-
	green	green	green	green
	(145A)	(145C to )	(144C)	(151A
		146C		to 152C)
INTERNODI	E WAX COVI	ERING		
	light to	heavy	medium	medium to
	medium			heavy
WAX BAND	WIDTH			
	narrow	wide	very wide	wide
GROWTH C	RACKS			
	absent	very few	few	very few
CORK CRAC	CKS			
	absent	absent	few	absent
BUD GROO	VE PRESENC	CE		
	absent	inconspic-	inconspic-	medium
		uous	uous	
ROOT BANI	D WIDTH – E	Bud Side		
	narrow	medium	narrow	narrow
BUD – PROM	MINENCE			
1101	weak to	medium	weak to	medium
	medium		medium	
BUD – SHAI	PE			
202 5111	ovate	rhomboid	rhomboid	triangular
		to ovate		pointed
BUD – POSI	TION OF BA	SE (Above ]	Leaf Scar)	
	near	near to	medium	near
		medium		
BUD – POSI	TION OF TH	P (Relative to	o Growth Rir	ng)
	level	level to	below	level to
		above		above
BUD WIDTH	H (Excluding	Wings)		
	very	narrow to	medium	narrow
	narrow	medium		
BUD WING	WIDTH			
	narrow	narrow to	narrow	medium
		medium		
LEAF SCAR	PROMINEN	CE		
	prominent	medium	medium	medium
GROWTH R	ING			
	swollen	flush	flush to	flush
			swollen	
lamina width	/midrib width	ratio		
	medium	medium	low to	n/a
			medium	
lamina attituc	le			
	bent near	curve near	curve near	curve near
	tip	middle	tip	tip

LEAF SHEATH – ADHERENCE TO CULM				
	weak	weak	medium	medium
HAIR GROU		IPPENCE		
	very sparse	snarse	very sparse	verv snarse
	to sparse	spuise	very spurse	very spurse
	to spurse			
HAIR GROU	P 57 – LENC	ЭТН		
	short	medium	very short	short
LIGULE HEI	IGHT			
	wide	medium	wide	medium
	DENIS		DDENCE	
	dense	sparse to	medium	charca
	uense	medium	meatum	sparse
		mearan		
AURICLE SH	HAPE – ULP			
	deltoid	lanceolate	deltoid	deltoid
AURICLE SH	HAPE – OLP			
	transitional	deltoid	transitional	deltoid
AURICLE SI	ZE – ULP			
	small to	small	very small	very small
	medium		to small	

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

### 'Q187'

Application No: 2000/185 Accepted: 19 Jul 2000. Applicant: **Bureau of Sugar Experiment Stations,** Indooroopilly, QLD.

Characteristics (Table 34, Figure 36) Ploidy: cytologically complex polyploid and aneuploid interspecific sugarcane (Saccharum spp. hybrid). Plant: perennial grass with erect growth habit and medium tillers per stool. Leaf canopy is medium. Suckers are very few in number. Stem: Culms are very short to short with mean length to top visible dewlap (TVD) approximately 2.19 m (range 1.73 to 2.54 m). Alternate internodes of a culm are arranged in a weakly zigzagged pattern. Length of longest internode on bud side is short to medium with mean length approximately 17.2 cm (range 12.6 to 21.0 cm) and side opposite bud is medium with mean length approximately 17.1 cm (range 12.4 to 21.0 cm). Diameter of longest internode central and perpendicular to bud is thin to medium with mean approximately 24.6 mm (range 20.8 to 30.6 mm). Diameter of longest internode central and dissecting bud is thin to medium with mean approximately 25.2 mm (range 21.1 to 32.7 mm). Internodes are bobbin-shaped and round in cross-section. Colour of dewaxed internode is yellow-green (RHS 146A to 152A) exposed and yellow-green (RHS 151D) unexposed. Wax covering of internode is very light to light, with wax band indistinct and medium in width. Growth cracks are absent. Cork cracks are absent. Bud groove is inconspicuous, medium to long and shallow. Root band width on bud side is narrow (7.2-7.5 mm). Bud is of strong prominence, ovate or obovate in shape, and with base fused to leaf scar and tip below the growth ring. Bud width excluding wings is narrow and bud wing is medium in width. Leaf scar is prominent and is oblique descending towards bud. Growth ring is swollen. Leaf: Lamina of TVD leaf is very long in length with mean approximately 1.63 m (range 1.46 to 1.80 m), wide to very wide in width with

mean approximately 48.4 mm (range 38.2 to 55.0 mm) at longitudinal midpoint, and curved near tip in attitude. Midrib of lamina at longitudinal midpoint is very wide in width with mean 4.9 mm (range 4.3 to 5.6 mm). Lamina width to midrib width ratio is low with mean approximately 9.9 (range 7.2 to 11.8). Leaf sheath of TVD leaf is medium in length with mean approximately 31.8 cm (range 28.0 to 35.0 cm). Sheaths of senescent leaves have weak adherence to culm. Hairs on abaxial leaf sheath surface (Group 57) are medium in density and medium to long. Ligule is crescentiform in shape and medium at midrib section. Cilia along the free margin of the ligule (Group 61) are very sparse and long. Inner or underlapping auricle and outer or overlapping auricle are both transitional in shape. Flowering: The flower is an open panicle and flowering is discontinuous. Seed: The seed or fruit is a caryopsis. Disease resistance: 'Q187' is very highly to highly resistant to Leaf Scald (Xanthomonas albilineans (Ashby) Dowson), susceptible to Red Rot (Glomerella tucumanensis (Spego) Arx and Mueller, and very highly to highly resistant to Pachymetra Root Rot. Other characteristics: Fibre quantity and quality are acceptable for milling purposes (impact reading 0.45, shear strength 16.5, short fibre 82.0%). In addition, 'Q187' was uniquely identified by DNA fingerprinting using microsatellite markers.

Origin and Breeding Controlled pollination: 'Q187' is the progeny of a controlled biparental cross made at Meringa (Gordonvale), OLD, between the female parent '58N829' and the male parent '66N2008'. Seed was collected from the pollinated female inflorescence and stored for germination in 1987. 'O187' is very highly to highly resistant to Pachymetra root rot (1-2) while '58N829' is resistant to intermediate (3-5) and '66N2008' is intermediate-susceptible to susceptible (6-7). 'Q187' is susceptible to red rot (7) while '58N829' is highly resistant (2). 'Q187' 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. Cane yield, 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. After an initial seedling stage (using seed from the cross), all subsequent stages have involved vegetative propagation.

**Choice of Comparators** 'Q138' and 'Q173<sup>(b)</sup>' were chosen as they are the most similar varieties of common knowledge grown in the northern region. Together these varieties accounted for 8.1% (0.9 million t) of the northern region crop in 1999. Both parents have been discarded from the parent collection so could not be included as comparators. 'Q187' is more resistant (1-2) to *Pachymetra* root rot than either of the parents (3-7) and is more susceptible (7) to red rot than the female parent '58N829' (2).

**Comparative Trial** Location: Conducted at Meringa Sugar Experiment Station (17° 12′ S, 145° 45′ E), Gordonvale, QLD. The trial was planted 22 Sep 1999 and harvested in Oct 2000. DUS data were recorded in mid May 2000. Conditions: Clones were propagated from vegetative cuttings and grown under field conditions. Soil type: Clifton. Watering regime: Rainfed. Chemicals: The fungicide Shirtan was applied at 400 ml per hectare at planting. SuSCon (14 kg/ha) was applied at planting. Fertilisers: DAP (120 kg/ha) was applied at planting. Muriate of potash (140 kg/ha) was applied on 15 Nov 1999 and urea (100 kg/ha) was applied on 25 Nov 1999. Total nutrients were: N - 67.6 kg/ha; P - 24 kg/ha; K - 70 kg/ha. Trial design: Clones were grown in a randomised complete block design with three replicates. Plots were single row by 10m, with 1.5m between rows. Measurements: Taken from up to 15 stalks sampled randomly per plot.

### **Prior Applications and Sales**

First Australian sale in Sep 1999.

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

#### Table 34 Saccharum varieties

	'Q187'	*'Q138'	*'Q173' <b>Φ</b>
GROWTH HA	BIT		
	erect	semi-erect	erect
TILLERING			
	medium	medium	few
LEAF CANOR	PΥ		
	medium	light to medium	light to medium
SUCKERING			
	very few	very few to few	very few
ALIGNMENT	OF INTERNOI	DES	
	weakly	weakly	medium to
	zigzagged	zigzagged	strongly zigzagged
INTERNODE = 1.57	LENGTH – Buo	d Side (cm) LS	D (P $\leq$ 0.01)
mean	17.2 <sup>b</sup>	19.9 <sup>a</sup>	17.5 <sup>b</sup>
std deviation	1.98	2.35	1.86
	short to medium	long	medium
INTERNODE	LENGTH - Sid	e Opposite Bud	d (cm) LSD
$(P \le 0.01) = 1.$	61		L
mean	17.10	19.7 <sup>a</sup>	17.20
std deviation	2.03	2.29	1.76
	medium	long	medium
INTERNODE	SHAPE		
	bobbin-	conoidal	bobbin-shaped
	shaped		to obconoidal
INTERNODE	DEWAXED CC	DLOUR (RHS)	– Exposed
	yellow-	yellow-	yellow-
	green (146A to 152A)	green (144A)	green (144A)
INTERNODE	DEWAXED CC	OLOUR (RHS)	– Unexposed
	yellow-	greyed-	yellow-green
	green (151D)	yellow (160A	)(151B)

Table 34 cor	ntinued		
INTERNODE	WAX COVERI very light to light	NG light	medium to heavy
WAX BAND D	ISTINCTIVEN indistinct	VESS distinct	medium
WAX BAND W	/IDTH medium	medium	wide
GROWTH CRA	ACKS absent	few to medium	medium to numerous
CORK CRACK	absent	very few	absent
BUD GROOVE	E PRESENCE inconspicuou	s inconspicuous	medium
BUD GROOVE	LENGTH		abort to
	long	to short	snort to medium
BUD GROOVE	E DEPTH shallow	very shallow to shallow	shallow to medium
BUD – PROMI	NENCE strong	medium to strong	medium
BUD – SHAPE	ovate or obovate	rhomboid	ovate
BUD – POSITI	ON OF BASE fused	(Above Leaf So fused to near	ar) near
BUD – POSITI	ON OF TIP (R below	elative to Grow below	th Ring) level
BUD WIDTH (	Excluding Win narrow	narrow	medium
LEAF SCAR P	ROMINENCE prominent	medium	prominent
GROWTH RIN	G swollen	flush to swollen	flush
LAMINA WID'	TH/MIDRIB W low	VIDTH RATIO low to medium	low to medium
LAMINA ATTI	TUDE curve near tip	bent near tip	curve near tip
LEAF SHEATH	I – ADHEREN weak	ICE TO CULM weak to medium	strong

LENGTH OF T	VD LEAF SHE	EATH (cm) LSI	$D (P \le 0.01) = 2.8$
mean	31.8 <sup>b</sup>	31.0 <sup>b</sup>	37.9 <sup>a</sup>
std deviation	1.2	2.9	1.9
	medium	medium	very long
HAIR GROUP	57 – OCCURR	ENCE	
	medium	very sparse	absent
HAIR GROUP	57 – LENGTH		
	medium to long	medium	n/a
LIGULE HEIGI	HT		
	medium	wide	wide
HAIR GROUP	61 – DENSITY	/OCCURREN	CE
	very sparse	medium to dense	sparse
AURICLE -PRO	DMINENCE (S	econd Fully Ur	nfurled Leaf)
	absent	prominent	prominent
AURICLE SHA	PE – ULP		
	transitional	lanceolate	lanceolate
AURICLE SHA	PE – OLP		
	transitional	lanceolate	deltoid

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

### **'Q188'**

Application No: 2000/186 Accepted: 19 Jul 2000. Applicant: Bureau of Sugar Experiment Stations, Indooroopilly, QLD.

Characteristics (Table 35, Figure 37) Ploidy: cytologically complex polyploid and aneuploid interspecific sugarcane (Saccharum spp. hybrid). Plant: perennial grass with semierect growth habit, few tillers per stool. Leaf canopy is very light. Suckers are very few in number. Stem: Culms are medium to tall with mean length to top visible dewlap (TVD) approximately 2.78 m (range 2.59 to 2.92 m). 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 20.0 cm (range 15.7 to 25.7 cm) and side opposite bud is long with mean length approximately 19.6 cm (range 15.2 to 25.3 cm). Diameter of longest internode central and perpendicular to bud is medium with mean approximately 25.6 mm (range 20.3 to 34.5 mm). Diameter of longest internode central and dissecting bud is thin to medium with mean approximately 25.3 mm (range 19.3 to 35.8 mm). Internodes are weakly conoidal and round in cross-section. Colour of dewaxed internode is yellow-green (RHS 144A) exposed and yellowgreen (RHS 144C) unexposed. Wax covering of internode is medium, with wax band distinct and narrow. Growth cracks are absent. Cork cracks are absent. Bud groove is medium prominence, long and medium in depth. Root band width on bud side is narrow (8.0-9.2 mm). Bud is of medium prominence, round in shape, and with base medium to leaf scar and tip level with the growth ring. Bud width excluding wings is narrow and bud wing is narrow. Leaf scar is prominent and is oblique descending towards bud. Growth ring is swollen. Leaf: Lamina of TVD leaf is short to medium in length with mean approximately 1.38 m (range 1.11 to 1.67 m), narrow to medium in width with mean approximately 38.9 mm (range 31.9 to 43.3 mm) at longitudinal midpoint, and curved near tip in attitude. Midrib of lamina at longitudinal midpoint is very narrow to narrow in width with mean 2.9 mm (range 2.4 to 3.3 mm). Lamina width to midrib width ratio is medium with mean approximately 13.8 (range 11.4 to 16.9). Leaf sheath of TVD leaf is very long with mean length approximately 35.3 cm (range 33.5 to 38.5 cm). Sheaths of senescent leaves have medium adherence to culm. Hairs on abaxial leaf sheath surface (Group 57) are absent. Ligule is crescentiform in shape and medium at midrib section. Cilia along the free margin of the ligule (Group 61) are medium to dense and medium in length. Auricles are medium in prominence and asymmetrical. Inner or underlapping auricle is lanceolate in shape and medium in size. Outer or overlapping auricle is transitional in shape. Flowering: The flower is an open panicle and flowering is discontinuous. Seed: The seed or fruit is a caryopsis. Disease resistance: 'Q188' is very highly to highly resistant to Fiji Disease Virus, very highly to highly resistant to Leaf Scald (Xanthomonas albilineans (Ashby) Dowson), very highly resistant to Sugarcane Mosaic Virus, intermediate to Red Rot (Glomerella tucumanensis (Spego) Arx and Mueller, and very highly to highly resistant to Pachymetra Root Rot. Other characteristics: Fibre quantity and quality are acceptable for milling purposes (impact reading 0.56, shear strength 30.2, short fibre 51.8%). In addition, 'Q188' was uniquely identified by DNA fingerprinting using microsatellite markers.

Origin and Breeding Controlled pollination: 'Q188' is the progeny of a controlled biparental cross made at Meringa (Gordonvale), QLD, between the female parent 'Q113' and the male parent '63S782'. Seed was collected from the pollinated female inflorescence and stored for germination in 1982. 'Q188' is very highly to highly resistant to Pachymetra root rot (1-2) while 'Q113' is resistantintermediate (4) and '63S782' is resistant-intermediate to intermediate-susceptible (4-6). 'Q188' 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. Cane yield, 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. After an initial seedling stage (using seed from the cross), all subsequent stages have involved vegetative propagation.

**Choice of Comparators** 'Q131' and 'Q138' were chosen as they are the most similar varieties of common knowledge grown in the southern region. Together these varieties accounted for 9% (0.6 million t) of the southern region crop in 1999. The male parent '63S782' has been discarded from the parent collection so could not be included as a comparator. The female parent 'Q113' was not included as a comparator. 'Q188' is more resistant to Fiji disease virus (1-2) than 'Q113' (5-6) or '63S782' (3-5) and is more resistant to *Pachymetra* root rot (1-2) than either of the parents (4-6).

Comparative Trial Location: Conducted at Meringa Sugar Experiment Station (17º 12' S, 145º 45' E), Gordonvale, QLD. The trial was planted 22 Sep 1999 and harvested in Oct 2000. DUS data were recorded in mid May 2000. Conditions: Clones were propagated from vegetative cuttings and grown under field conditions. Soil type: Clifton. Watering regime: Rainfed. Chemicals: The fungicide Shirtan was applied at 400 ml per hectare at planting. SuSCon (14 kg/ha) was applied at planting. Fertilisers: DAP (120 kg/ha) was applied at planting. Muriate of potash (140 kg/ha) was applied on 15 Nov 1999 and urea (100 kg/ha) was applied on 25 Nov 1999. Total nutrients were: N - 67.6 kg/ha; P - 24 kg/ha; K - 70 kg/ha. Trial design: Clones were grown in a randomised complete block design with three replicates. Plots were single row by 10m, with 1.5m between rows. Measurements: Taken from up to 15 stalks sampled randomly per plot.

### **Prior Applications and Sales**

First Australian sale in Apr 2000.

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

### Table 35 Saccharum varieties

	'Q188'	*'Q131'	*'Q138'
GROWTH HA	BIT		
	semi-erect	erect	semi-erect
TILLERING	few	few	medium
LEAF CANOF	PΥ		
	very light	very light	light to medium
SUCKERING			
	very few	very few	very few to few
ALIGNMENT	OF INTERNO	DDES	
	medium	weakly	weakly
	zigzagged	zigzagged	zigzagged
INTERNODE = 1.57	LENGTH – Bı	ud Side (cm) L	SD ( $P \le 0.01$ )
mean	20.0 <sup>a</sup>	15.3 <sup>b</sup>	19.9 <sup>a</sup>
std deviation	2.65	1.62	2.35
	long	very short to short	long
INTERNODE	LENGTH – Si	de Opposite Bi	ud (cm) LSD
$(P \le 0.01) = 1.$	61	h	
mean	19.6 <sup>a</sup>	14.90	19.7 <sup>a</sup>
std deviation	2.70	1.68	2.29
	long	to short	long
INTERNODE	SHAPE		
	weakly	bobbin-	conoidal
	conoidal	shaped	
INTERNODE	CROSS-SECT	ION	
	round	oval	round

# **Table 35 continued**

INTERNODE	DEWAXED CO	DLOUR (RHS)	– Exposed
	yellow-green	yellow-green	yellow-green
	(144A)	(144A) to	(144A)
		greyed-orange	;
		(166A)	
			Unavnosod
INTERNODE	vellow-green	greved-vellow	- Unexposed
	(144C)	$(160\Delta)$	(160A)
	(1440)	(100/1)	(100/1)
INTERNODE	WAX COVERI	NG	
	medium	very light	light
WAX BAND V	VIDTH		
	narrow	narrow	medium
GROWTH CR	ACKS		
	absent	absent	few to medium
CORK CRACI	15 abacat	abcont	vom for
	absent	ausein	very iew
BUD GROOV	E PRESENCE		
	medium	absent	inconspicuous
BUD GROOV	E LENGTH		
	long	n/a	very short
			to short
BUD GROOV	E DEPTH		
	medium	n/a	to shallow
			to shallow
ROOT BAND	WIDTH – Bud	Side	
	narrow	very narrow	narrow
BUD – PROM	INENCE		
	medium	medium	medium to
			strong
BUD – SHAPI	 7		
DOD SIMI	round	pentagonal	rhomboid
		I	
BUD – POSIT	ION OF BASE	(Above Leaf Sc	ar)
	medium	fused	fused to near
		1.6 4 0	(1 D' )
BOD – POSIT	ION OF TIP (R	balow	th Ring)
	ievel	DEIOW	UCIUW
BUD WIDTH	(Excluding Win	gs)	
	narrow	medium	narrow
BUD WING W	/IDTH		
	narrow	medium	medium
LEAF SCAR I	<b>KOMINENCE</b>		
	prominent	meaium	medium
GROWTH RIN	JG		
	swollen	flush	flush to swollen
	5	114611	mush to swohell
LAMINA LEN	GTH (TVD Le	af) (m) LSD (P	$\leq 0.01) = 0.17$
mean	1.38 <sup>a</sup>	flowered –	1.50 <sup>a</sup>
		no lamina	
std deviation	0.19	measurements	0.11
	short to	possible	long
	medium		

LAMINA WIDT $(P \le 0.01) = 5.1$	TH (Longitudin	al Midpoint) (r	nm) LSD
mean	38.9 <sup>a</sup>	flowered – no lamina	50.1 <sup>b</sup>
std deviation	3.6	measurements	3.7
	narrow to	possible	very wide
	medium		·
MIDRIB WIDT	H (Longitudina	l Midpoint) (m	m) LSD
$(P \le 0.01) = 0.7$			
mean	2.9 <sup>a</sup>	flowered – no lamina	4.7 <sup>b</sup>
std deviation	0.3	measurements	0.4
	very narrow	possible	wide to very
	to narrow		wide
LAMINA WIDT	TH/MIDRIB W	IDTH RATIO	
	medium	low	low to medium
LAMINA ATTI	ГUDE		
	curve near	curve near	bent near
	tıp	tıp	tip
LEAF SHEATH	– ADHEREN	CE TO CULM	
	medium	weak	weak to medium
LENGTH OF T	VD LEAF SHE	EATH (cm) LSI	$O(P \le 0.01) = 2.8$
mean	35.3 <sup>a</sup>	flowered -	31.0 <sup>b</sup>
		no lamina	
std deviation	1.7	measurements	2.9
	very long	possible	medium
HAIR GROUP	57 – OCCURR	ENCE	
	absent	absent	very sparse
LIGULE HEIGH	HT		
	medium	wide	wide
AURICLE – PR	OMINENCE (S	Second Fully U	nfurled Leaf)
	medium	inconspicuous	prominent
AURICLE SHA	PE – ULP		
	lanceolate	deltoid	lanceolate
AURICLE SHA	PE – OLP		
	transitional	transitional	lanceolate
AURICLE SIZE	L – ULP		
	medium	small	medium to large

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

# 'Q189'

Application No: 2000/187 Accepted: 19 July 2000. Applicant: Bureau of Sugar Experiment Stations, Indooroopilly, QLD.

Characteristics (Table 36, Figure 38) Ploidy: cytologically complex polyploid and aneuploid interspecific sugarcane (Saccharum spp. hybrid). Plant: perennial grass with semierect growth habit, few 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 2.56 m (range 1.98 to 3.31 m). Alternate internodes of a culm are arranged in a medium to strongly zigzagged pattern. Length of longest internode on bud side is short with mean length approximately 16.2 cm (range

13.2 to 19.4 cm) and side opposite bud is short with mean length approximately 15.9 cm (range 12.7 to 19.1 cm). Diameter of longest internode central and perpendicular to bud is medium with mean approximately 25.6 mm (range 21.7 to 29.6 mm). Diameter of longest internode central and dissecting bud is medium with mean approximately 26.1 mm (range 22.2 to 30.6 mm). Internodes are cylindrical and round to slightly oval in cross-section. Colour of dewaxed internode is greyed-orange (RHS 165A) exposed and vellow-green (RHS 144A to 152A) unexposed. Wax covering of internode is medium to heavy, with wax band indistinct. Growth cracks are very few. Cork cracks are absent. Bud groove is medium in prominence, short to medium in length and shallow to medium in depth. Root band width on bud side is wide (11.2-12.7 mm). Bud is of strong prominence, ovate or obovate to triangular pointed in shape, and with base near to leaf scar and tip level with the growth ring. Bud width excluding wings is wide and bud wing is wide. Leaf scar is prominent and is oblique descending towards bud. Growth ring is swollen. Leaf: Lamina of TVD leaf is medium to long in length with mean approximately 1.47 m (range 1.32 to 1.58 m), narrow to medium in width with mean approximately 38.1 mm (range 33.3 to 41.8 mm) at longitudinal midpoint, and bent near tip in attitude. Midrib of lamina at longitudinal midpoint is very narrow to narrow in width with mean 2.9 mm (range 2.4 to 3.4 mm). Lamina width to midrib width ratio is medium with mean approximately 13.2 (range 11.5 to 16.5). Leaf sheath of TVD leaf is short with mean length approximately 29.9 cm (range 27.5 to 33.0 cm). Sheaths of senescent leaves have weak adherence to culm. Hairs on abaxial leaf sheath surface (Group 57) are medium in density and long. Ligule is crescentiform in shape and medium at midrib section. Cilia along the free margin of the ligule (Group 61) are of medium density and short. Auricles are prominent and asymmetrical. Inner or underlapping auricle is lanceolate in shape and large in size. Outer or overlapping auricle is lanceolate in shape and small in size. Flowering: The flower is an open panicle and flowering is discontinuous. Seed: The seed or fruit is a caryopsis. Disease resistance: 'Q189' is intermediate-susceptible to Leaf Scald (Xanthomonas albilineans (Ashby) Dowson), intermediate-susceptible to Red Rot (Glomerella tucumanensis (Spego) Arx and Mueller, and resistant to Pachymetra Root Rot. Other characteristics: Fibre quantity and quality are acceptable for milling purposes (impact reading 0.40, shear strength 16.8, short fibre 80.8%). In addition, 'Q189' was uniquely identified by DNA fingerprinting using microsatellite markers.

Origin and Breeding Controlled pollination: 'Q189' is the progeny of a controlled biparental cross made at Meringa (Gordonvale), Q, between the female parent 'Q117' and the male parent 'CP56-59'. Seed was collected from the pollinated female inflorescence and stored for germination in 1990. 'O189' is intermediate-susceptible (6) to Leaf Scald while 'O117' is very highly resistant (1) and 'O189' is resistant to Pachymetra root rot (3) while 'CP56-59' is susceptible (7). 'Q189' 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. Cane yield, 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. After an initial seedling stage (using seed from the cross), all subsequent stages have involved vegetative propagation.

**Choice of Comparators** 'Q117' and 'Q180<sup>(b)</sup>' were chosen as they are the most similar varieties of common knowledge grown in the Burdekin region. 'Q117' accounted for 30.0%(2.5 million t) of the Burdekin crop in 1999 while 'Q180<sup>(b)</sup>' is a relatively new variety. 'Q117' is also the female parent. The male parent 'CP56-59' has been discarded from the parent collection so could not be included as a comparator. 'CP56-59' is less resistant to *Pachymetra* root rot (7) than 'Q189' (3).

Comparative Trial Location: Conducted at Meringa Sugar Experiment Station (17º 12' S, 145º 45' E), Gordonvale, QLD. The trial was planted 22 Sep 1999 and harvested in Oct 2000. DUS data were recorded in mid May 2000. Conditions: Clones were propagated from vegetative cuttings and grown under field conditions. Soil type: Clifton. Watering regime: Rainfed. Chemicals: The fungicide Shirtan was applied at 400 ml per hectare at planting. SuSCon (14 kg/ha) was applied at planting. Fertilisers: DAP (120 kg/ha) was applied at planting. Muriate of potash (140 kg/ha) was applied on 15 Nov 1999 and urea (100 kg/ha) was applied on 25 Nov 1999. Total nutrients were: N - 67.6 kg/ha; P - 24 kg/ha; K - 70 kg/ha. Trial design: Clones were grown in a randomised complete block design with three replicates. Plots were single row by 10m, with 1.5m between rows. Measurements: Taken from up to 15 stalks sampled randomly per plot.

#### **Prior Applications and Sales**

First Australian sale in Jul 2000.

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

### Table 36 Saccharum varieties

	'Q189'	*'Q117'	*'Q180'¢
GROWTH HAI	BIT		
	semi-erect	erect	medium
TILLERING			
	few	few	few to medium
LEAF CANOP	Y		
	light	light to	light to
		medium	medium
ALIGNMENT	OF INTERNOI	DES	
	medium to	medium	weakly
	strongly zigzagged	zigzagged	zigzagged
INTERNODE I = $1.57$	LENGTH – Bud	d Side (cm) LS	D (P ≤ 0.01)
mean	16.2 <sup>a</sup>	14.2 <sup>ab</sup>	15.9 <sup>b</sup>
std deviation	1.69	1.22	1.68
	short	very short	short
$\overline{\text{INTERNODE I}}$ $(P \le 0.01) = 1.6$	LENGTH – Sid	e Opposite Bud	l (cm) LSD
(1 - 0.01) = 1.0 mean	15.9 <sup>a</sup>	13.7 <sup>b</sup>	15.6 <sup>a</sup>
std deviation	1.74	1.29	1.69
	short	very short	short

Table 36 cor	ntinued		
INTERNODE S cyline	SHAPE drical	tumescent	bobbin- shaped
INTERNODE O	CROSS-SECT	ION	
	round to slightly oval	oval	oval
INTERNODE I	DEWAXED C	OLOUR (RHS)	– Exposed
	greyed-	yellow-	yellow-green
	orange (165A)	green (146C)	(144A)
INTERNODE I	DEWAXED C	OLOUR (RHS)	- Unexposed
	yellow-gree	n yellow-green	yellow-green
	(144A to	(145C to	(145B to
	152A)	146C)	145C)
INTERNODE V	VAX COVER	ING	
	medium to heavy	heavy	light
WAX BAND D	ISTINCTIVE	NESS	
	indistinct	indistinct	distinct
GROWTH CRA	ACKS		
	very few	very few	absent
CORK CRACK	S		
	absent	absent	few to medium
BUD GROOVE	PRESENCE		
	medium	inconspicuous	inconspicuous
BUD GROOVE	LENGTH		
	short to	very short	very short
	medium	to short	
BUD GROOVE	DEPTH		
	shallow to	very shallow	very shallow
	medium	to shallow	,
ROOT BAND V	VIDTH – Bud	1 Side	
	wide	medium	narrow
BUD – PROMI	NENCE		
	strong	medium	medium to
			strong
BUD – SHAPE			
	ovate or	rhomboid	round
	obovate to	to ovate	
	triangular		
	pointed		
BUD – POSITI	ON OF BASE	E (Above Leaf Sc	car)
	near	near to	mostly fused
		medium	
BUD – POSITI	ON OF TIP (	Relative to Grow	th Ring)
	level	level to	above
		above	
BUD WIDTH (	Excluding Wi	ngs)	
	wide	narrow to	very wide
		medium	

BUD WING W	IDTH		
	wide	narrow to medium	wide
LEAF SCAR P	ROMINENCE		
	prominent	medium	prominent
GROWTH RIN	G		
	swollen	flush	slightly swollen
LAMINA ATTI	TUDE		
	bent near tip	curve near middle	curve near tip
LEAF SHEATH	I – ADHEREN	CE TO CULM	
	weak	weak	strong
HAIR GROUP	57 – OCCURR	ENCE	
	medium	sparse	sparse
HAIR GROUP	57 – LENGTH		
	long	medium	medium to long
HAIR GROUP	61 – DENSITY	/OCCURREN	CE
	medium	sparse to medium	medium
AURICI E – PE	OMINENCE (	Second Fully I	Infurled Leaf)
nemell II	prominent	medium	medium
AURICI E SHA	PF – UI P		
	lanceolate	lanceolate	dentoid
AURICLE SHA	PE – OLP		
	lanceolate	deltoid	transitional
AURICLE SIZI	E – ULP		
	large	small	medium
Means followed	by the same la	tter are not sign	ificantly different a

ns followed by same letter are not significantly different at  $P \le 0.01$ , Duncan's Multiple Range.

# **'O190'**

Application No: 2000/190 Accepted: 19 Jul 2000. Applicant: Bureau of Sugar Experiment Stations, Indooroopilly, QLD

Characteristics (Table 37, Figure 39) Ploidy: cytologically complex polyploid and aneuploid interspecific sugarcane (Saccharum spp. hybrid). Plant: perennial grass with medium growth habit, few tillers per stool. Leaf canopy is very light to light. Suckers are very few to few in number. Stem: Culms are tall with mean length to top visible dewlap (TVD) approximately 2.96 m (range 2.00 to 3.71 m). 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 16.4 cm (range 14.1 to 20.3 cm) and side opposite bud is short to medium with mean length approximately 16.1 cm (range 14.0 to 19.9 cm). Diameter of longest internode central and perpendicular to bud is medium to thick with mean approximately 26.6 mm (range 18.3 to 34.6 mm). Diameter of longest internode central and dissecting bud is medium to thick with mean approximately 27.0 mm (range 19.3 to 36.2 mm). Internodes are bobbin-shaped and round in crosssection. Colour of dewaxed internode is yellow-green (RHS 144A, 145C and 145D to 152D) exposed and yellow-green

(RHS 145A) unexposed. Wax covering of internode is light to medium, with wax band indistinct and wide. Growth cracks are very few. Cork cracks are very few to few. Bud groove is inconspicuous in prominence, short to medium in length and shallow in depth. Root band width on bud side is very wide (11.5-14.6 mm). Bud is of medium to strong prominence, triangular pointed in shape, and with base medium to leaf scar and tip above the growth ring. Bud width excluding wings is wide and bud wing is medium in width. Leaf scar is prominent and is oblique descending towards bud. Growth ring is swollen. Leaf: Lamina of TVD leaf is very short to short in length with mean approximately 1.29 m (range 1.12 to 1.49 m), medium to wide in width with mean approximately 43.0 mm (range 33.1 to 48.4 mm) at longitudinal midpoint, and curved near tip in attitude. Midrib of lamina at longitudinal midpoint is narrow in width with mean 3.1 mm (range 2.4 to 3.9 mm). Lamina width to midrib width ratio is medium with mean approximately 13.8 (range 10.7 to 16.3). Leaf sheath of TVD leaf is very short with mean length approximately 27.2 cm (range 24.0 to 29.5 cm). Sheath of senescent leaves have very weak adherence to culm. Hairs on abaxial leaf sheath surface (Group 57) are medium in density and short. Ligule is deltoid in shape and wide at midrib section. Cilia along the free margin of the ligule (Group 61) are sparse to medium density and short to medium in length. Auricles are prominent and asymmetrical. Inner or underlapping auricle is lanceolate in shape and large to very large in size. Outer or overlapping auricle is transitional in shape. Flowering: The flower is an open panicle and flowering is discontinuous. Seed: The seed or fruit is a carvopsis. Disease resistance: 'O190' is very highly resistant to Fiji disease virus, very highly resistant to Leaf Scald (Xanthomonas albilineans (Ashby) Dowson), highly resistant to Red Rot (Glomerella tucumanensis (Spego) Arx and Mueller, and highly resistant to Pachymetra Root Rot. Other characteristics: Fibre quantity and quality are acceptable for milling purposes (impact reading 0.49, shear strength 26.8, short fibre 65.1%). In addition, 'Q190' was uniquely identified by DNA fingerprinting using microsatellite markers.

**Origin and Breeding** Controlled pollination: 'O190' is the progeny of a controlled biparental cross made at Meringa (Gordonvale), OLD, between the female parent 'O107' and the male parent 'H56-752'. Seed was collected from the pollinated female inflorescence and stored for germination in 1986. 'Q190' is very highly resistant (1) to Fiji disease virus while 'Q107' is intermediate to highly susceptible (5-8) and 'H56-752' is highly resistant to resistant (2-3). 'Q190' 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. Cane yield, ccs, and sugar vield have been the main selection criteria. Disease resistance screening was conducted at the pathology farm (Eight Mile Plains) and in the Tully glasshouse. After an initial seedling stage (using seed from the cross), all subsequent stages have involved vegetative propagation.

**Choice of Comparators** 'H56-752' and 'Q160' were chosen as they are the most similar varieties of common knowledge grown in the Central region. 'H56-752' is a minor variety, accounting for 1.2% (0.1 million t) of the

Central region crop in 1999. 'Q160' is a minor variety in the Northern region. The male parent 'H56-752' was included as a comparator. The female parent 'Q107' was not included as a comparator. It is less resistant to Fiji disease virus (5-8) and less resistant to *Pachymetra* root rot (5-9) than 'Q190' (1 and 1-3, respectively).

Comparative Trial Location: Conducted at Meringa Sugar Experiment Station (17° 12' S, 145° 45' E), Gordonvale, QLD. The trial was planted 22 Sep 1999 and harvested in Oct 2000. DUS data were recorded in mid May 2000. Conditions: Clones were propagated from vegetative cuttings and grown under field conditions. Soil type: Clifton. Watering regime: Rainfed. Chemicals: The fungicide Shirtan was applied at 400 ml per hectare at planting. SuSCon (14 kg/ha) was applied at planting. Fertilisers: DAP (120 kg/ha) was applied at planting. Muriate of potash (140 kg/ha) was applied on 15 Nov 1999 and urea (100 kg/ha) was applied on 25 Nov 2000. Total nutrients were: N - 67.6 kg/ha; P - 24 kg/ha; K - 70 kg/ha. Trial design: Clones were grown in a randomised complete block design with three replicates. Plots were single row by 10m, with 1.5m between rows. Measurements: Taken from up to 20 stalks sampled randomly per plot.

### **Prior Applications and Sales**

First Australian sale in Jun 2000.

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

#### Table 37 Saccharum varieties

	'Q190'	*'H56-752'	*'Q160'		
GROWTH HABIT					
	medium	medium	semi-erect		
TILLERING					
	few	medium	medium		
LEAF CANOPY					
	very light to light	light	medium		
SUCKERING					
	very few to few	few	very few		
CULM HEIGH	T (m) LSD (P <	$\leq 0.01) = 0.43$			
mean	2.96 <sup>ab</sup>	3.20 <sup>a</sup>	2.52 <sup>b</sup>		
std deviation	0.45	0.39	0.33		
	tall	tall to	short to		
		very tall	medium		
ALIGNMENT	ALIGNMENT OF INTERNODES				
	weakly	strongly	strongly		
	zigzagged	zigzagged	zigzagged		
INTERNODE LENGTH – Bud Side (cm) LSD ( $P \le 0.01$ ) = 1.57					
mean	16.4 <sup>b</sup>	19.5 <sup>a</sup>	16.1 <sup>b</sup>		
std deviation	1.46	1.12	1.62		
	short	medium	short		
	to long				

Table 37 con	tinued		
INTERNODE L ( $P \le 0.01$ ) = 1.6	ENGTH – Side 1	e Opposite Buc	l (cm) LSD
mean	16.1 <sup>b</sup>	19.1 <sup>a</sup>	15.4 <sup>b</sup>
std deviation	1.46	1.12	1.60
	short to medium	long	short
INTERNODE S	HAPE		
	bobbin-	bobbin-	slightly bobbin
	shaped	shaped	shaped
INTERNODE C	CROSS-SECTIO	ON	
	round	round to slightly oval	oval
INTERNODE D	EWAXED CO	LOUR (RHS)	– Exposed
	yellow-green	yellow-green	yellow-green
	(144A,	(144 A	(144A)
	145C &	to 151A)	
	145D to 152D)		
INTERNODE D	EWAXED CO	LOUR (RHS)	– Unexposed
	yellow-green	yellow-green	yellow-green
	(145A)	(144B)	(145A to
			145C)
INTERNODE W	VAX COVERIN	NG	
	light to	heavy	medium to
	medium		heavy
WAX BAND W	IDTH		
	wide	wide	very narrow
GROWTH CRA	CKS		
	very few	absent	few to medium
CORK CRACK	S		
	very few	few	medium to
	to few		numerous
BUD GROOVE	PRESENCE		
	inconspicuous	s inconspicuous	s conspicuous
BUD GROOVE	LENGTH		
	short to	short	medium
	medium		
BUD GROOVE	DEPTH		
	shallow	very shallow	shallow
ROOT BAND W	VIDTH – Bud S	Side	
	very wide	medium	narrow
BUD – PROMI	NENCE		
	medium to	medium	very weak
	strong		to weak
BUD – SHAPE			
	triangular	ovate	ovate
	pointed		
BUD - POSITIO	ON OF BASE	(Above Leaf So	car)
202 100110	medium	medium	medium
		to high	

			in King)	
	above slightly below level			
		to level		
BUD WIDTH (H	Excluding Wing	gs)		
	wide	very wide	medium	
BUD WING WI	DTH	• •	1.	
	medium	very wide	medium	
	OMINENCE			
LEAF SCAR PF	OWINENCE	madium	madium	
	prominent	mealum	medium	
	TH (TVD Lea	f (m) I SD (P	$\leq 0.01) = 0.17$	
	1 29b	1 51a	1 33ab	
atd deviation	0.00	0.10	0.13	
	very short	long	short	
	to short	long	SHOL	
	to short			
AMINA WIDT	H/MIDRIB W	IDTH RATIO		
	medium	medium	low to medium	
LAMINA ATTI	TUDE			
	curve near	curve near	bent near tip	
	tip	middle	1	
	•			
LEAF SHEATH	- ADHEREN	CE TO CULM		
	very weak	weak	weak to medium	
HAIR GROUP 5	57 – OCCURR	ENCE		
	medium	very sparse	medium	
HAIR GROUP 5	57 – LENGTH			
	short	short to	medium	
		medium		
LIGULE SHAP	H			
	1.16.11			
	deltoid	crescentiform	crescentiform	
	deltoid	crescentiform	crescentiform	
LIGULE HEIGH	deltoid IT	crescentiform	crescentiform	
LIGULE HEIGH	deltoid IT wide	crescentiform wide	crescentiform medium	
LIGULE HEIGH	deltoid HT wide	crescentiform wide	medium	
LIGULE HEIGH HAIR GROUP (	deltoid HT wide 51 – DENSITY	crescentiform wide /OCCURRENG medium	crescentiform medium CE	
LIGULE HEIGH HAIR GROUP (	deltoid HT wide 51 – DENSITY sparse to medium	crescentiform wide /OCCURRENG medium	crescentiform medium CE sparse to medium	
LIGULE HEIGH HAIR GROUP (	deltoid HT wide 51 – DENSITY sparse to medium	crescentiform wide /OCCURRENG medium	crescentiform medium CE sparse to medium	
LIGULE HEIGH HAIR GROUP ( AURICLE -PRC	deltoid HT wide 51 – DENSITY sparse to medium MINENCE (S	crescentiform wide /OCCURRENG medium econd Fully Ur	crescentiform medium CE sparse to medium	
LIGULE HEIGH HAIR GROUP ( AURICLE -PRC	deltoid HT wide 51 – DENSITY sparse to medium DMINENCE (So prominent	crescentiform wide /OCCURRENG medium econd Fully Ur prominent	crescentiform medium CE sparse to medium furled Leaf) medium	
LIGULE HEIGH HAIR GROUP ( AURICLE -PRC	deltoid HT wide 51 – DENSITY sparse to medium DMINENCE (So prominent	crescentiform wide /OCCURRENG medium econd Fully Ur prominent	crescentiform medium CE sparse to medium ffurled Leaf) medium	
LIGULE HEIGH HAIR GROUP ( AURICLE -PRC	deltoid HT wide 51 – DENSITY sparse to medium DMINENCE (So prominent PE – OLP	crescentiform wide /OCCURRENG medium econd Fully Ur prominent	crescentiform medium CE sparse to medium ifurled Leaf) medium	
LIGULE HEIGH HAIR GROUP ( AURICLE -PRC AURICLE SHA transi	deltoid HT wide 51 – DENSITY sparse to medium DMINENCE (So prominent PE – OLP tional tr	crescentiform wide /OCCURRENG medium econd Fully Ur prominent	crescentiform medium CE sparse to medium furled Leaf) medium lanceolate	
LIGULE HEIGH HAIR GROUP ( AURICLE -PRC AURICLE SHA transi	deltoid HT wide 51 – DENSITY sparse to medium PMINENCE (So prominent PE – OLP tional tr	crescentiform wide /OCCURRENG medium econd Fully Ur prominent ransitional	crescentiform medium CE sparse to medium furled Leaf) medium lanceolate	
LIGULE HEIGH HAIR GROUP ( AURICLE -PRC AURICLE SHA transit	deltoid HT wide 51 – DENSITY sparse to medium PMINENCE (So prominent PE – OLP tional tr - ULP	crescentiform wide /OCCURRENG medium econd Fully Ur prominent ransitional	crescentiform medium CE sparse to medium furled Leaf) medium lanceolate	
LIGULE HEIGH HAIR GROUP ( AURICLE -PRC AURICLE SHA transit	deltoid HT wide 51 – DENSITY sparse to medium DMINENCE (So prominent PE – OLP tional tr - ULP large to	crescentiform wide /OCCURRENG medium econd Fully Ur prominent ransitional medium	crescentiform medium CE sparse to medium furled Leaf) medium lanceolate small to	
LIGULE HEIGH HAIR GROUP ( AURICLE -PRC AURICLE SHA transit	deltoid HT wide 51 – DENSITY sparse to medium DMINENCE (So prominent PE – OLP tional tr - ULP large to very large	crescentiform wide /OCCURRENG medium econd Fully Ur prominent ransitional medium	crescentiform medium CE sparse to medium furled Leaf) medium lanceolate small to medium	

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

# 'Q191'

Application No: 2000/189 Accepted: 19 Jul 2000. Applicant: **Bureau of Sugar Experiment Stations,** Indooroopilly, QLD.

Characteristics (Table 38, Figure 40) Ploidy: cytologically complex polyploid and aneuploid interspecific sugarcane (Saccharum spp. hybrid). Plant: perennial grass with semierect growth habit, medium tillers per stool. Leaf canopy is light to medium. Suckers are very few to few in number. Stem: Culms are short with mean length to top visible dewlap (TVD) approximately 2.34 m (range 1.67 to 2.80 m). Alternate internodes of a culm are arranged in a weakly zigzagged pattern. Length of longest internode on bud side is very short to short with mean length approximately 15.5 cm (range 13.2 to 17.5 cm) and side opposite bud is short with mean length approximately 15.3 cm (range 13.0 to 17.5 cm). Diameter of longest internode central and perpendicular to bud is medium to thick with mean approximately 26.4 mm (range 21.5 to 35.1 mm). Diameter of longest internode central and dissecting bud is medium with mean approximately 26.7 mm (range 21.6 to 35.9 mm). Internodes are cylindrical and round in cross-section. Colour of dewaxed internode is yellow-green (RHS 144A to 152D) exposed and yellow-green (RHS 144C) unexposed. Wax covering of internode is very light to light, with wax band distinct and narrow. Growth cracks are very few. Cork cracks are absent. Bud groove is absent. Root band width on bud side is medium (9.3-11.7 mm). Bud is of medium to strong prominence, ovate or obovate in shape, and with base fused to leaf scar and tip level with the growth ring. Bud width excluding wings is wide and bud wing is very wide. Leaf scar is of medium prominence and is oblique descending towards bud. Growth ring is swollen. Leaf: Lamina of TVD leaf is short to medium in length with mean approximately 1.39 m (range 1.26 to 1.52 m), medium in width with mean approximately 41.3 mm (range 37.1 to 47.4 mm) at longitudinal midpoint, and curved near tip in attitude. Midrib of lamina at longitudinal midpoint is narrow to medium in width with mean 3.5 mm (range 2.9 to 4.3 mm). Lamina width to midrib width ratio is medium with mean approximately 11.9 (range 10.0 to 13.8). Leaf sheath of TVD leaf is short to medium with mean length approximately 30.9 cm (range 28.0 to 35.0 cm). Sheath of senescent leaves have medium adherence to culm. Hairs on abaxial leaf sheath surface (Group 57) are very sparse in density and short. Ligule is crescentiform in shape and medium at midrib section. Cilia along the free margin of the ligule (Group 61) have medium density and are long. Auricles are prominent and asymmetrical. Inner or underlapping auricle is lanceolate in shape and large in size. Outer or overlapping auricle is transitional in shape. Flowering: The flower is an open panicle and flowering is discontinuous and very sparse. Seed: The seed or fruit is a carvopsis. Disease resistance: 'Q191' is 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, and highly to very highly susceptible to Pachymetra Root Rot. Other characteristics: Fibre quantity and quality are acceptable for milling purposes (impact reading 0.45, shear strength 30.2, short fibre 63.6%).

Origin and Breeding Controlled pollination: 'Q191' is the progeny of a controlled biparental cross made at Meringa (Gordonvale), QLD, between the female parent 'NCo310' and the male parent '54N7096'. Seed was collected from the pollinated female inflorescence and stored for germination in 1980. 'Q191' is very highly resistant (1) to Fiji disease virus while 'NCo310' is highly susceptible (8). 'Q191' 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, particularly on the Atherton Tableland. Standard commercial varieties were also included in the trials for comparative purposes. Cane yield, 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. After an initial seedling stage (using seed from the cross), all subsequent stages have involved vegetative propagation.

Choice of Comparators 'H56-752' and 'Q181'<sup>(b)</sup> were chosen as they are the most similar varieties of common knowledge grown in the Northern region. 'H56-752' is a minor variety and 'Q181'<sup>(b)</sup> is a relatively new variety in the Northern region. Neither parent was included as a comparator as both have been discarded from the parent collection. The female parent 'NCo310' is less resistant to Fiji disease virus (8) than 'Q191' (1).

Comparative Trial Location: Conducted at Meringa Sugar Experiment Station (17° 12' S, 145° 45' E), Gordonvale, QLD. The trial was planted 22 Sep 1999 and harvested in Oct 2000. DUS data were recorded in mid May 2000. Conditions: Clones were propagated from vegetative cuttings and grown under field conditions. Soil type: Clifton. Watering regime: Rainfed. Chemicals: The fungicide Shirtan was applied at 400 ml per hectare at planting. SuSCon (14 kg/ha) was applied at planting. Fertilisers: DAP (120 kg/ha) was applied at planting. Muriate of potash (140 kg/ha) was applied on 15 Nov 1999 and urea (100 kg/ha) was applied on 25 Nov 2000. Total nutrients were: N - 67.6 kg/ha; P - 24 kg/ha; K - 70 kg/ha. Trial design: Clones were grown in a randomised complete block design with three replicates. Plots were single row by 10m, with 1.5m between rows. Measurements: Taken from up to 20 stalks sampled randomly per plot.

### **Prior Applications and Sales**

First Australian sale in Jun 2000.

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

### Table 38 Saccharum varieties

	'Q191'	*'H56-752'	*'Q181'¢
GROWTH HAI	BIT		
	semi-erect	medium	semi-erect
LEAF CANOP	Y		
	light to medium	light	light to medium

Table 38 co	ontinued			BUD – SHAPE	3		
SUCKERING verv fo	very few	few	verv few		ovate or obovate	ovate	triangular pointed
	to few		, , , , , , , , , , , , , , , , , , ,	BUD – POSIT	ION OF BASE	(Above Leaf S	Scar)
	JT (m) I SD (D	< 0.01 = 0.42			fused	medium	medium
mean	2.34 <sup>b</sup>	$\leq 0.01) = 0.43$ 3.20 <sup>a</sup>	2.90 <sup>a</sup>			to high	
std deviation	0.23	0.39	0.20	BUD – POSIT	ION OF TIP (F	Relative to Grov	wth Ring)
	short	tall to very tall	medium to tall		level	slightly below to level	w above
ALIGNMENT	OF INTERNO	DES		BUD WIDTH	Excluding Wi	10s)	
	weakly zigzagged	strongly zigzagged	medium zigzagged		wide	very wide	wide
	LENCTU D.	- 1 C: 1- () I C	D (D < 0.01)	BUD WING W	'IDTH		
= 1.57	LENGIH – BI	id Side (cm) LS	$D(P \le 0.01)$		very wide	very wide	wide
mean	15.5 <sup>b</sup>	19.5 <sup>a</sup>	18.1 <sup>a</sup>		TH (Longitudi	nal Midpoint)	(mm) LSD
std deviation	1.15	1.12	1.53	$(P \le 0.01) = 5.$	l	nui maponit)	
	very short	medium	medium	mean	41.3 <sup>b</sup>	41.3 <sup>b</sup>	51.7 <sup>a</sup>
	to short	to long		std deviation	2.2	2.8	2.8
INTERNODE	LENGTH – Sie	de Opposite Bu	d (cm) LSD		medium	medium	very wide
$(P \le 0.01) = 1.$	.61	11	<b>`</b> ,	LAMINA ATT	ITUDE		
mean	15.3 <sup>b</sup>	19.1 <sup>a</sup>	18.0 <sup>a</sup>		curve near ti	p curve near	bent near tip
std deviation	1.17	1.12	1.95			middle	
	snort	long	medium				
INTERNODE	SHAPE			LEAF SHEAT	H – ADHERE	weak	1 medium
	cylindrical	bobbin-	bobbin-		meanum	weak	meanum
		shaped	shaped	HAIR GROUP	57 – OCCUR	RENCE	
	CROSS SECT				very sparse	very sparse	sparse to medium
INTERNODE	round	round to	round		57 LENCTI	T	
	Tound	slightly oval	Tound	HAIK GROUP	short	short to	medium to
·					Shore	medium	long
INTERNODE	DEWAXED Co	OLOUR (RHS)	- Exposed				
	yellow-green	(144 A	(144A)	LIGULE HEIC	HT	.,	.,
	to 152D)	to $151A$	(1++11)		medium	wide	wide
		,		HAIR GROUP	61 – DENSIT	Y/OCCURREN	NCE
INTERNODE	DEWAXED C	OLOUR (RHS)	- Unexposed		medium	medium	sparse
	yellow-green	yellow-green	yellow-green				
	(144C)	(144B)	(140C)	AURICLE SHA	APE – ULP	1 1 4	1 1. 1
INTERNODE	WAX COVER	ING			lanceolate	lanceolate	deltoid
	very light	heavy	medium	AURICLE SHA	APE – OLP		
	to light				transitional	transitional	deltoid
	DISTINCTIVE	NESS					
WAA DAND I	distinct	indistinct	distinct	AURICLE SIZ	E – ULP	madium	madium ta
					large	medium	large
WAX BAND V	WIDTH						luige
	narrow	wide	wide	Means followed	by the same le	etter are not sig	nificantly different at
CPOWTH CP	ACKS			$P \le 0.01$ , Duncar	's Multiple Rang	je.	
OKOW III CK	verv few	absent	absent	· <b>(</b> 102)			
. <u></u>				Q192	2000/100		1 1 2000
CORK CRAC	KS			Application N	lo: 2000/188 .	Accepted: 19	Jul 2000.
	absent	few	few	Indooroopilly	, QLD.	Sugar Expe	riment Stations,
BUD GROOV	E PRESENCE	inconst	madium	Characterict	cs (Table 30	Figure 41) PL	oidy: cytologically
	absent	inconspicuou	smeatum	complex noly	ploid and an	euploid inter	specific sugarcane
BUD – PROM	INENCE			(Saccharum s	pp. hybrid). F	lant: perennia	d grass with semi-
	medium to	medium	weak to	erect growth h	abit, few tille	rs per stool. L	eaf canopy is light.
	strong		medium	Suckers are v	ery few in nu	mber. Stem:	Culms are short to

medium with mean length to top visible dewlap (TVD)
area in the Northern region, particularly the Atherton Tableland. Standard commercial varieties were also included in the trials for comparative purposes. Cane yield, 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. After an initial seedling stage (using seed from the cross), all subsequent stages have involved vegetative propagation.

**Choice of Comparators** 'Q167<sup>(b)</sup>' and 'Q174<sup>(b)</sup>' were chosen as they are the most similar varieties of common knowledge grown in the Northern region. 'Q174'<sup>(b)</sup> is a new variety in the northern region and both comparators are being grown on the Atherton Tableland where 'Q192' is approved. Neither parent was included, as both have been discarded from the parent collection.

Comparative Trial Location: Conducted at Meringa Sugar Experiment Station (17° 12' S, 145° 45' E), Gordonvale, QLD. The trial was planted 22 Sep 1999 and harvested in Oct 2000. DUS data were recorded in mid May 2000. Conditions: Clones were propagated from vegetative cuttings and grown under field conditions. Soil type: Clifton. Watering regime: Rainfed. Chemicals: The fungicide Shirtan was applied at 400 ml per hectare at planting. SuSCon (14 kg/ha) was applied at planting. Fertilisers: DAP (120 kg/ha) was applied at planting. Muriate of potash (140 kg/ha) was applied on 15 Nov 1999 and urea (100 kg/ha) was applied on 25 Nov 2000. Total nutrients were: N – 67.6 kg/ha; P – 24 kg/ha; K – 70 kg/ha. Trial design: Clones were grown in a randomised complete block design with three replicates. Plots were single row by 10m, with 1.5m between rows. Measurements: Taken from up to 20 stalks sampled randomly per plot.

#### **Prior Applications and Sales**

First Australian sale in Jun 2000.

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

#### Table 39 Saccharum varieties

	'Q192'	*'Q167'¢	*'Q174'¢	
TILLERING				
	few	medium	few	
LEAF CANOP	Y			
	light	light to	very light	
	C	medium	to light	
ALIGNMENT OF INTERNODES				
	weakly	medium	medium	
	zigzagged	zigzagged	zigzagged	
INTERNODE I	LENGTH – Buc	d Side (cm) LS	D (P $\le$ 0.01)	
= 1.37	17 18	10.18	11 GD	
mean	1 / .4	19.1	14.0	
std deviation	1.70	1.88	1.41	
	short to	medium	very short	
	medium	to long	to short	

approximately 2.58 m (range 1.95 to 2.96 m). Alternate internodes of a culm are arranged in a weakly zigzagged pattern. Length of longest internode on bud side is short to medium with mean length approximately 17.4 cm (range 13.2 to 20.3 cm) and side opposite bud is medium with mean length approximately 17.2 cm (range 13.4 to 20.2 cm). Diameter of longest internode central and perpendicular to bud is thin to medium with mean approximately 24.7 mm (range 19.2 to 31.5 mm). Diameter of longest internode central and dissecting bud is thin to medium with mean approximately 25.5 mm (range 19.9 to 32.0 mm). Internodes are conoidal and round to slightly oval in cross-section. Colour of dewaxed internode is greyed-purple (RHS 187A) exposed and greyed-yellow (RHS 160B) unexposed. Wax covering of internode is very light to light, with wax band distinct and medium in width. Growth cracks are absent. Cork cracks are few to medium. Bud groove is conspicuous, very long and medium to deep. Root band width on bud side is very narrow (5.8-7.4 mm). Bud is of weak to medium prominence, ovate in shape, and with base near to leaf scar and tip slightly above the growth ring. Bud width excluding wings is very narrow and bud wing is narrow. Leaf scar is prominent and is oblique descending towards bud. Growth ring is slightly swollen. Leaf: Lamina of TVD leaf is very short in length with mean approximately 1.22 m (range 1.00 to 1.43 m), wide with mean approximately 46.6 mm (range 27.0 to 53.0 mm) at longitudinal midpoint, and bent near tip in attitude. Midrib of lamina at longitudinal midpoint is wide with mean 4.4 mm (range 2.7 to 5.6 mm). Lamina width to midrib width ratio is low to medium with mean approximately 10.8 (range 6.3 to 15.0). Leaf sheath of TVD leaf is short with mean length approximately 29.1 cm (range 25.5 to 31.0 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 sparse to medium and very short to short. Auricles are inconspicuous in prominence and symmetrical. Inner or underlapping auricle is transitional in shape. Outer or overlapping auricle is transitional in shape. Flowering: The flower is an open panicle and flowering is discontinuous. Seed: The seed or fruit is a caryopsis. Disease resistance: 'Q192' is very highly resistant to Fiji Disease Virus, intermediate to intermediate-susceptible to Leaf Scald (Xanthomonas albilineans (Ashby) Dowson), highly resistant to Red Rot (Glomerella tucumanensis (Spego) Arx and Mueller and susceptible to Pachymetra root rot. Other characteristics: Fibre quantity and quality are acceptable for milling purposes (impact reading 0.40, shear strength 18.0, short fibre 74.0%). In addition, 'Q192' was uniquely identified by DNA fingerprinting using microsatellite markers.

**Origin and Breeding** Controlled pollination: 'Q192' is the progeny of a controlled biparental cross made at Meringa (Gordonvale), QLD, between the female parent '61N1017' and the male parent '66N2008'. Seed was collected from the pollinated female inflorescence and stored for germination in 1982. 'Q192' is intermediate to intermediate-susceptible (5-6) to Leaf Scald, while '66N2008' is highly resistant (2). 'Q192' has been evaluated and selected by BSES in yield trials on the Meringa Sugar Experiment Station and sites within the sugarcane growing

Table 39 con	tinued			BUD GROOVI	E DEPTH		
INTERNODE I	ENGTH _ Sid	le Opposite Bud	(cm) I SD		medium to doop	n/a	medium to doop
$(P \le 0.01) = 1.6$	1	le Opposite Dud	I (elli) LSD		to deep		to deep
mean	17.2 <sup>a</sup>	18.9 <sup>a</sup>	14.3 <sup>b</sup>	ROOT BAND	WIDTH – Bud	Side	
std deviation	1.65	1.88	1.47		very narrow	narrow	narrow
	medium	medium	very short				
		to long	to short	BUD – PROM	INENCE		
	VIDTH - Cent	ral Perpendicula	ar to Bud (mm)		weak to	weak to	medium
LSD ( $P \le 0.01$ )	= 2.38	rai i cipendicula	ii to Bud (iiiii)		medium	medium	
mean	24.7 <sup>a</sup>	23.3 <sup>a</sup>	28.1 <sup>b</sup>	BUD – SHAPE	ξ		
std deviation	3.2	2.0	2.3	Deb Shini	ovate	ovate	triangular
	thin to	thin	thick to				pointed
	medium		very thick				
INTERNODE W	VIDTH – Cent	ral Dissecting F	Rud (mm) I SD	BUD – POSIT	ION OF TIP (R	elative to Grow	th Ring)
$(P \le 0.01) = 2.5$	9				slightly	level	level to
mean	25.5 <sup>a</sup>	23.7 <sup>a</sup>	28.8 <sup>b</sup>		above		above
std deviation	3.1	2.1	2.6	BUD WIDTH	Excluding Win	gs)	
	thin to	very thin	thick		very narrow	medium	narrow
	medium	to thin			-		
INTERNODE S	HAPF			BUD WING W	IDTH		
INTERNODE 5	conoidal	bobbin-	weakly conoidal		narrow	wide	medium
		shaped	to tumescent		POMINENCE		
				LEAF SCAR F	prominent	medium	medium
INTERNODE C	ROSS-SECTI	ON			prominent	mourum	mearum
	round to	round	round to	GROWTH RIN	IG		
	slightly ovar		slightly ovar		slightly	flush	flush
INTERNODE D	EWAXED CO	DLOUR (RHS)	– Exposed		swollen		
	greyed-	greyed-	yellow-green			af) (m) LSD (D	< 0.01 = 0.17
	purple	orange	(146B to 152A)	LAMINA LEN	GIH(IVDLea)	$(m) LSD (P) = 1.50^{\circ}$	$\leq 0.01$ = 0.17 1 38ab
	(187A)	(177A)		std deviation	0.11	0.09	0.06
					very short	long	short to
INTERNODE L	greved	vellow-	- Unexposed		2	U	medium
	vellow	green	(151A				
	(160B)	(151A) to	to 152C)	LAMINA WID	TH (Longitudir	nal Midpoint) (1	nm) LSD
		greyed-yellow	7	$(P \le 0.01) = 5.$	1 16 68	20.1b	40.7b
		(160B)		std deviation	40.0° 5.6	25	3.2
	VAN COVEDI	NC			wide	narrow to	medium
INTERNODE V	verv light	verv light	medium to			medium	
	to light	very light	heavy				
				MIDRIB WID	ГН (Longitudina	al Midpoint) (m	nm) LSD
WAX BAND DI	ISTINCTIVEN	NESS		$(P \le 0.01) = 0.7$	/ 148	4 18	2 ob
	distinct	distinct	indistinct	std deviation	4.4-	4.1-	5.0°
WAY BAND W	пти			sta acviation	wide	medium	narrow
WAA DAND W	medium	medium	wide			to wide	
	mourum	mean					
GROWTH CRA	CKS			LAMINA WID	TH/MIDRIB W	IDTH RATIO	
	absent	few to	very few		low to	low	medium
		medium			medium		
	<u> </u>			LAMINA ATT	ITUDE		
COKK CKACK	s few to	numerous	absent		bent near tip	curve near tip	curve near tip
	medium	numerous	ubsent		F		
				LEAF SHEAT	H – ADHEREN	CE TO CULM	
BUD GROOVE	PRESENCE				weak	weak	medium
	conspicuous	absent	medium to				
			conspicuous	LENGTH OF 1	1 VD LEAF SHI	EATH (cm) LS	$D(P \le 0.01) = 2.8$
BUD GROOVE	IENGTH			std deviation	1.5	2.1	20.0
DED GROUVE	very long	n/a	medium to long	sta actitution	short	medium	very short
			0			to long	-

HAIR GROUP	57 – OCCURE	RENCE	
	absent	medium	very sparse
LIGULE HEIC	ЪНТ		
	wide	wide	medium
HAIR GROUP	61 – DENSIT	Y/OCCURREN	ICE
	sparse to	medium to	sparse
	medium	dense	
AURICLE – P	ROMINENCE	(Second Fully ) is medium	Unfurled Leaf) medium
AURICLE SH	APE – ULP		
	transitional	lanceolate	deltoid
AURICLE SH	APE – OLP		
	transitional	transitional	deltoid

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

x Triticosecal	e
Triticale	

### 'Tickit'

Application No: 2000/140 Accepted: 8 May 2000. Applicant: Luminis Pty Ltd, Adelaide, SA and Grains Research and Development Corporation, Barton, ACT.

Characteristics (Table 40, Figure 44) Plant: habit erect, height medium-tall, spring type, medium maturity. Coleoptiles: medium anthocyanin colouration. Stem: straw pith thin and hairiness of neck strong. Leaf: length and width medium, blue-green, sheaths strongly glaucous, anthocyanin colouration of auricles medium and frequency of recurved flag leaves very low. Inflorescence: ear length and width medium, density of spikelets medium, very strongly glaucous, fully awned, chaff white. Floret: lower glume first beak medium, second beak absent or very short, hairiness on external surface absent. Grain length and density medium, colour red, quality soft. Disease resistance: resistant to triticale stem rust, Puccinia graminis f sp. tritici race 34-2,12-13, Puccinia striiformis f sp. tritici race 110E 143 A+ and leaf rust Puccinia recondita f sp. tritici race 104-1,2,3,(6),(7),11. Resistant to cereal cyst nematode, Heterodora avenae.

Origin and Breeding Controlled pollination: seed parent HX87-255 x pollen parent 'Muir'. The seed parent differs from the candidate variety in that 'Tickit' is uniform medium-tall height, whereas HX87-255 segregates medium-tall and dwarf types. The pollen parent differs from the candidate variety in that 'Tickit' has a hairy peduncle and is resistant to cereal cyst nematode whereas 'Muir' has a bald peduncle and is susceptible to cereal cyst nematode. Hybridisation was carried out at Waite Campus, SA, in 1993, as cross TX93-19. In 1994, TX93-19 was grown to F2 in the glasshouse and to F3 as a plot. F3 Single heads were selected and grown to F4 as headhills over summer 1995 and then to F5 as plots. Selection TX93-19-1, a single plot at Parrakie, SA, was selected on the basis of agronomic type and resistance to triticale stem rust. Selection TX93-19-1-3 derives from a single F6 head taken from TX93-19-1 in replicated yield trials in 1996. Multiplication of seed as a head hill over summer, then as a single plot took place in 1997. Confirmation of TX93-19-1-3 as a uniform and high yielding line, with resistance to rust and cereal cyst nematode was carried out in 1998 and 1999 seasons. Selection criteria were rust resistance, agronomic type, grain yield and cereal cyst nematode resistance. Propagation: by seed. Breeder: Dr Kath V. Cooper, Adelaide University, Waite Campus, Glen Osmond, SA.

**Choice of Comparators** Comparator: 'Tahara'. As the pollen parent, 'Muir' differs from 'Tickit' in having a bald peduncle and being susceptible to cereal cyst nematode, and the seed parent, HX87-255, a line also produced by KV Cooper, segregates plants of different heights, these were not chosen as comparators. As the seed parent, HX87-255 is 'Tahara' x HX87-12 and the penultimate seed parent, 'Tahara' is similar to 'Tickit' in that it is resistant to cereal cyst nematode and is of uniform medium-tall height, 'Tahara' was chosen as the most similar comparator of common knowledge. Other triticale varieties of common knowledge: 'Credit', 'Treat' and 'Everest' differ from 'Tickit' in being susceptible to cereal cyst nematode, as well as differing in a number of plant and seed characters, so were not included in the comparative trial.

**Comparative Trial** Location: Waite Campus, SA (Latitude 34° 56'S, longitude 138° 38' E, elevation 100m), Jun-Dec 1999 and 2000. Conditions: trial conducted in the field, sown on 8 Jun, 1999 and 20 Jun, 2000. Fertiliser and herbicides applied as required. Trial design: Two replicates, having current and previous generations of 'Tickit' side-by-side, plus 'Tahara' in random arrangement with other triticale varieties. Plot size was  $5m \times 6$  rows, each plot containing about 300 plants. Within each replicate plot, measurements were taken from 25 individual plants, randomly taken from inner rows of the plot. One sample per plant. Data presented in the comparative table is from the 1999 trial.

### Prior Applications and Sales Nil.

Description: Katharine V Cooper, Adelaide University, Glen Osmond, SA.

### Table 40 Triticosecale varieties

	'Tickit'	*'Tahara'
GLAUCOSITY OF FI	LAG LEAF SHEAT	Н
	strong	medium
GLAUCOSITY OF EA	AR	
	very strong	strong
PLANT LENGTH: ST	TEM, EAR, AWNS (	(cm)
	medium-tall	medium-tall
mean	108.5	114.8
std deviation	4.49	3.99
LSD/sig	2.2	P≤0.01
AWNS, LENGTH AB	OVE TIP OF EAR (	(cm)
mean	6.5	5.9
std deviation	0.72	0.77
LSD/sig	0.3	P≤0.01

### Zelcova serrata Japanese Elm

### 'Kiwi Sunset'

Application No: 2000/052. Accepted: 16 Mar 2000. Applicant: **Allenton Nurseries,** Ashburton, New Zealand. Agent: **JFT Nurseries,** Monbulk, VIC.

**Characteristics** (Table 41, Figure 21) Plant: spreading deciduous tree. Young stem: pubescent, colour upper side greyed orange (RHS 176A-B) under side yellow green (RHS 151A), leaf arrangement alternate. Stipule: number two per node, colour greyed orange and yellow green. Leaf: pubescent, shape ovate to broad elliptic, margin serrate, teeth acute, colour in spring upper side yellow green (RHS 153A) under side (RHS 152D), colour in autumn upper side greyed orange (RHS 165B, 177B) under side greyed orange (RHS 164B) and greyed yellow (RHS 161A). (Note: all RHS colour chart numbers refer to 1986 edition.)

**Origin and Breeding** Open-pollinated seedling: parent *Zelcova serrata*. Selection criteria: 'Kiwi Sunset' was chosen on the basis of leaf colour. Propagation: mature stock plants were generated from the original seedlings by budding onto *Zelcova serrata* rootstock. All subsequent generations have been produced in the same way to confirm uniformity and stability. 'Kiwi Sunset' will be commercially propagated by budding onto *Zelcova serrata* rootstock. Breeder: Allenton Nurseries, Ashburton, New Zealand.

**Choice of Comparator** Zelcova serrata was chosen because it is the parent plant. Other Zelcova serrata hybrids listed in the Royal Horticultural Society Encyclopaedia of Garden Plants (1999 edition) were considered but rejected as follows Z. 'Goblin' dwarf plant, Z. 'Green Vase' vase shape with green leaves, Z. 'Village Green' green leaves red autumn foliage.

**Comparative Trial** Location: Silvan, VIC between Feb 1998 and Nov 2000. Conditions: ambient southern Victorian (Latitude 38°S) conditions; plants planted out in nursery rows as *Zelcova serrata* understock in 1996, budded with 'Kiwi Sunset' scions in Feb 1998; soil red kraznozem, fertiliser standard. Trial design: paired replicates. Measurements: twenty specimens selected from twenty plants.

# Prior Applications and Sales<br/>CountrySales<br/>YearName AppliedNew Zealand1996Granted'Kiwi Sunset'

'Kiwi Sunset' has not been sold.

Description: David Nichols, Rye, VIC.

### Table 41 Zelcova varieties

	'Kiwi Sunset'	*Zelcova serrata
PLANT CHARACTERIS	TICS	
colour of young stem upp	er side (RHS, 1986)	
	176A-B	184A
colour of young stem und	er side (RHS, 1986)	
	151A	152B
anthocyanin in new growt	h	
	absent to weak	medium
stipule colour	greyed orange and yellow green	greyed purple
LEAF CHARACTERIST	ICS (RHS, 1986)	
colour upper side in sprin	g	
	153A	146A
colour under side in sprin	g	
	152D	147B
colour upper side in autur	nn	
	165B, 177B	166A-B
colour under side in autur	nn	
	164B, 161A	164C, 161A

### GRANTS

### Acmena smithii Lilly Pilly

### **'Hot Flush'**

Application No: 1998/095 Grantee: Jo Barber and Chris Barber, Meldale, QLD.

Certificate No: 1610 Expiry Date: 19 November, 2025.

### Alstroemeria hybrid Alstroemeria, Peruvian Lily

### 'Staprilan'<sup>()</sup> syn Angela<sup>()</sup>

Application No: 1997/251 Grantee: **Van Staaveren b.v.** Certificate No: 1616 Expiry Date: 19 November, 2020. Agent: **F & I Baguley Flower & Plant Growers**, Clayton South, VIC.

### 'Staprimar'<sup>()</sup> syn Margaret<sup>()</sup>

Application No: 1998/151 Grantee: Van Staaveren b.v. Certificate No: 1619 Expiry Date: 19 November, 2020. Agent: F & I Baguley Flower & Plant Growers, Clayton South, VIC.

### 'Stapripal' syn Paola

Application No: 1998/150 Grantee: Van Staaveren b.v. Certificate No: 1618 Expiry Date: 19 November, 2020. Agent: F & I Baguley Flower & Plant Growers, Clayton South, VIC.

### 'Stapristef' syn Stefanie

Application No: 1998/149 Grantee: Van Staaveren b.v. Certificate No: 1617 Expiry Date: 19 November, 2020. Agent: F & I Baguley Flower & Plant Growers, Clayton South, VIC.

### Brassica napus var oleifera Canola

### **'46C01'**()

Application No: 1998/228 Grantee: **Pioneer Hi-Bred** International Inc.

Certificate No: 1641 Expiry Date: 19 December, 2020. Agent: **Pioneer Hi-Bred Australia Pty Ltd**, Toowoomba, QLD.

### 'Purler'

Application No: 1999/160 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: 1592 Expiry Date: 6 October, 2020. Agent: **Wesfarmers Dalgety Seed Tech**, Bassenden, WA.

### Capsicum annuum var fasciculatum Dwarf Chilli

### 'Orange Bantam'

Application No: 1998/154 Grantee: NF Derera, AM – ASAS Pty Ltd.

Certificate No: 1606 Expiry Date: 22 November, 2020. Agent: **Oasis Horticulture Pty Ltd**, Winmalee, NSW.

Capsicum annuum var longum Condiment Paprika

### **'Szegedi 80'**<sup>(b)</sup> syn Mellow Scarlet<sup>(b)</sup>

Application No: 1996/254 Grantee: Fuszerpaprika Kutato-Fejleszto Kft.

Certificate No: 1631 Expiry Date: 11 December, 2020. Agent: NF Derera, AM, FAIAS, CPAg, Winston Hills, NSW.

Coleonema pulchrum Confetti Bush

### 'Mellow Yellow'

Application No: 1999/008 Grantee: Stephen Membrey and Gayle Membrey.

Certificate No: 1634 Expiry Date: 14 December, 2020.

Agent: Plants Management Australia Pty Ltd, Wonga Park, VIC.

Convolvulus sabiatus Moroccan Glory Bind

### 'Star Struck'

Application No: 1999/118 Grantee: Peter Lalor and Robert Gourlay.

Certificate No: 1626 Expiry Date: 7 December, 2020. Agent: **D & A Mansfield and Sons Pty Ltd**, Skye, VIC.

Corymbia maculata Spotted Gum

### 'Imagine'

Application No: 1998/119 Grantee: Vic John Ciccolella, Toowoomba, QLD.

Certificate No: 1630 Expiry Date: 8 December, 2025.

Eucalyptus robusta Swamp Mahogany

### 'The Green and Gold'

Application No: 1997/334 Grantee: **Vic John Ciccolella**, Toowoomba, QLD. Certificate No: 1629 Expiry Date: 8 December, 2025.

Gaura lindheimeri Whirling Butterfly

### 'Blushing Butterflies'

Application No: 2000/080 Grantee: **Baldassare Mineo**. Certificate No: 1637 Expiry Date: 14 December, 2020. Agent: **Plant Growers Australia Pty Ltd**, Wonga Park, VIC.

### 'Crimson Butterflies'

Application No: 1998/252 Grantee: **Baldassare Mineo**. Certificate No: 1638 Expiry Date: 14 December, 2020. Agent: **Plant Growers Australia Pty Ltd**, Wonga Park, VIC.

### 'Sunny Butterflies'

Application No: 1999/081 Grantee: Baldassare Mineo. Certificate No: 1636 Expiry Date: 14 December, 2020. Agent: Plant Growers Australia Pty Ltd, Wonga Park, VIC.

Gossypium hirsutum Cotton

### 'Sicala V-2RR'(D

Application No: 1999/036 Grantee: CSIRO Plant Industry, Narrabri, NSW.

Certificate No: 1633 Expiry Date: 14 December, 2020.

### 'Sicot 189RR'(D

Application No: 1999/037 Grantee: CSIRO Plant Industry, Narrabri, NSW.

Certificate No: 1632 Expiry Date: 14 December, 2020.

Hordeum vulgare Barley

### 'Lindwall'

Application No: 1998/044 Grantee: The State of Queensland through its Department of Primary Industries Brisbane, QLD and Grains Research and Development Corporation, Barton, ACT.

Certificate No: 1646 Expiry Date: 19 December, 2020.

### Hosta hybrid **Plantain Lilv**

### 'June'

Application No: 1997/238 Grantee: Notcutts Nurseries. Certificate No: 1635 Expiry Date: 14 December, 2020. Agent: Plants Management Australia Pty Ltd, Wonga Park, VIC.

### Impatiens hybrid **New Guinea Impatiens**

### **'Dueimpetred'**<sup>(b)</sup> syn **Red Fox Riviera Red**<sup>(b)</sup>

Application No: 1999/370 Grantee: Marga Dummen. Certificate No: 1624 Expiry Date: 19 November, 2020. Agent: F & I Baguley Flower & Plant Growers, Clayton South, VIC.

### 'Dueribluni'<sup>()</sup> syn Red Fox Riviera Blue Night<sup>()</sup>

Application No: 1999/369 Grantee: Marga Dummen. Certificate No: 1623 Expiry Date: 19 November, 2020. Agent: F & I Bagulev Flower & Plant Growers, Clayton South. VIC.

**'Duerior'**<sup>(b)</sup> syn **Red Fox Orange Riviera**<sup>(b)</sup> Application No: 1999/177 Grantee: Marga Dummen. Certificate No: 1621 Expiry Date: 19 November, 2020. Agent: F & I Baguley Flower & Plant Growers, Clayton South, VIC.

### 'Dueripinkeye'<sup>()</sup> syn Red Fox Riviera Pink Eve<sup>(D)</sup>

Application No: 1999/371 Grantee: Marga Dummen. Certificate No: 1625 Expiry Date: 19 November, 2020. Agent: F & I Baguley Flower & Plant Growers, Clayton South, VIC.

### 'Duerirest'<sup>()</sup> syn Red Fox Riviera Red Star<sup>()</sup>

Application No: 1999/176 Grantee: Marga Dummen. Certificate No: 1620 Expiry Date: 19 November, 2020. Agent: F & I Baguley Flower & Plant Growers, Clayton South, VIC.

### 'Dueriwhiteye'<sup>()</sup> syn Red Fox Riviera White Eve<sup>(D)</sup>

Application No: 1999/178 Grantee: Marga Dummen. Certificate No: 1622 Expiry Date: 19 November, 2020. Agent: F & I Baguley Flower & Plant Growers, Clayton South, VIC.

Lolium multiflorum **Italian Ryegrass** 

### 'Robust'

Application No: 1996/041 Grantee: Upper Murray Seeds, Tooma, NSW.

Certificate No: 1615 Expiry Date: 27 November, 2020.

Lonicera nitida **Box Honeysuckle** 

### 'Little Nikki'

Application No: 1999/159 Grantee: David George Kent, Morayfield, QLD. Certificate No: 1645 Expiry Date: 19 December, 2020.

Lupinus albus White Lupin

### 'Lago Azzurro'(D

Application No: 1995/112 Grantee: Mt Gambier Property Trust, Adelaide, SA. Certificate No: 1640 Expiry Date: 19 December, 2020.

Pelargonium xhortorum Pelargonium

## 'BFP-788 Bright Scarlet' /b syn Designer

### **Bright Scarlet**<sup>()</sup>

Application No: 1998/012 Grantee: Ball FloraPlant -A Division of Ball Horticultural Company. Certificate No: 1605 Expiry Date: 22 November, 2020. Agent: Oasis Horticulture Pty Ltd, Winmalee, NSW.

### **'BFP-838 Dark Red'**<sup>(b)</sup> syn **Designer Dark** Red<sup>()</sup>

Application No: 1998/008 Grantee: Ball FloraPlant -A Division of Ball Horticultural Company. Certificate No: 1601 Expiry Date: 22 November, 2020. Agent: Oasis Horticulture Pty Ltd, Winmalee, NSW.

### 'Pink Heart' syn Showcase Pink Heart'

Application No: 1998/011 Grantee: **Ball FloraPlant – A Division of Ball Horticultural Company**. Certificate No: 1604 Expiry Date: 22 November, 2020. Agent: **Oasis Horticulture Pty Ltd**, Winmalee, NSW.

### 'Showcase Salmon'

Application No: 1998/010 Grantee: **Ball FloraPlant – A Division of Ball Horticultural Company**. Certificate No: 1603 Expiry Date: 22 November, 2020. Agent: **Oasis Horticulture Pty Ltd**, Winmalee, NSW.

### 'Starburst Red'

Application No: 1998/009 Grantee: **Ball FloraPlant – A Division of Ball Horticultural Company**. Certificate No: 1602 Expiry Date: 22 November, 2020. Agent: **Oasis Horticulture Pty Ltd**, Winmalee, NSW.

### Pisum sativum

Field Pea

### 'Cooke'

Application No: 1999/227 Grantee: The State of Western Australia through its department of agriculture called Agriculture Western Australia, South Perth, WA and Grains Research and Development Corporation, Barton, ACT.

Certificate No: 1611 Expiry Date: 19 November, 2020.

### 'Helena'

Application No: 1999/228 Grantee: **The State of Western Australia through its department of agriculture called Agriculture Western Australia**, South Perth, WA and **Grains Research and Development Corporation**, Barton, ACT.

Certificate No: 1612 Expiry Date: 19 November, 2020.

## *Rosa* hybrid **Rose**

### **'Ausjo'**<sup>(b)</sup> syn Jude the Obscure<sup>(b)</sup>

Application No: 1998/244 Grantee: David Austin Roses Ltd.

Certificate No: 1607 Expiry Date: 22 November, 2020. Agent: **Siebler Publishing Services**, Hartwell, VIC.

### 'Interlene'

Application No: 1998/263 Grantee: **Interplant B.V.** Certificate No: 1595 Expiry Date: 19 November, 2020. Agent: **Grandiflora Nurseries Pty Ltd**, Cranbourne, VIC.

### 'JACina'<sup>()</sup> syn Wild Dancer<sup>()</sup>

Application No: 1998/079 Grantee: Bear Creek Gardens, Inc.

Certificate No: 1649 Expiry Date: 21 December, 2020. Agent: **Swane's Nurseries Australia Pty Limited**, Dural, NSW.

### 'JACpihi'<sup>()</sup> syn Grand Finale '98<sup>()</sup>

Application No: 1998/075 Grantee: Bear Creek Gardens, Inc.

Certificate No: 1651 Expiry Date: 21 December, 2020. Agent: **Swane's Nurseries Australia Pty Limited**, Dural, NSW.

### 'JACzor'<sup>()</sup> syn Fame '98<sup>()</sup>

Application No: 1998/073 Grantee: Bear Creek Gardens, Inc.

Certificate No: 1652 Expiry Date: 21 December, 2020. Agent: **Swane's Nurseries Australia Pty Limited**, Dural, NSW.

### 'JAColber' (b) syn Opening Night (b)

Application No: 1998/076 Grantee: Bear Creek Gardens, Inc.

Certificate No: 1650 Expiry Date: 21 December, 2020. Agent: **Swane's Nurseries Australia Pty Limited**, Dural, NSW.

### 'Nirpnufdeu'

Application No: 1998/184 Grantee: Lux Riviera s.r.l. Certificate No: 1594 Expiry Date: 19 November, 2020. Agent: Grandiflora Nurseries Pty Ltd, Cranbourne, VIC.

### **'Ruiconti'**<sup>(b)</sup> syn **Yellow Unique**<sup>(b)</sup>

Application No: 1998/265 Grantee: **De Ruiter's Nieuwe Rozen B.V.** 

Certificate No: 1597 Expiry Date: 19 November, 2020. Agent: **Grandiflora Nurseries Pty Ltd**, Cranbourne, VIC.

### 'Ruioran'<sup>(b)</sup> syn Orange Unique<sup>(b)</sup>

Application No: 1998/264 Grantee: **De Ruiter's Nieuwe Rozen B.V.** 

Certificate No: 1596 Expiry Date: 19 November, 2020. Agent: **Grandiflora Nurseries Pty Ltd**, Cranbourne, VIC.

### 'Sunluck'

Application No: 1998/266 Grantee: Frank Bart Schuurman.

Certificate No: 1598 Expiry Date: 19 November, 2020. Agent: **Grandiflora Nurseries Pty Ltd**, Cranbourne, VIC.

### 'Tanmixa'<sup>()</sup> syn Joy of Life<sup>()</sup>

Application No: 1997/064 Grantee: Rosen Tantau, Mathias Tantau Nachfolger.

Certificate No: 1639 Expiry Date: 18 December, 2020. Agent: **S Brundrett & Sons (Roses) Pty Ltd**, Narre Warren North, VIC.

### 'WEKdykstra'() syn Rose of Narromine()

Application No: 1998/077 Grantee: Weeks Wholesale Rose Grower, Inc.

Certificate No: 1647 Expiry Date: 21 December, 2020. Agent: Swane's Nurseries Australia Pty Limited, Dural, NSW.

### 'WEKplapep' /b syn Scentimental /b

Application No: 1998/078 Grantee: Weeks Wholesale Rose Grower, Inc.

Certificate No: 1648 Expiry Date: 21 December, 2020. Agent: **Swane's Nurseries Australia Pty Limited**, Dural, NSW.

Scabiosa columbaria
Pincushion Flower, Scabious

### 'Samanthas Pink'

Application No: 1999/238 Grantee: **Super Perennials Ltd**. Certificate No: 1600 Expiry Date: 22 November, 2020. Agent: **Australian Perennial Growers Pty Ltd**, Glenorie, NSW. Solanum tuberosum Potato

### 'FL 1867'()

Application No: 1999/186 Grantee: **Frito-Lay Co.** Certificate No: 1613 Expiry Date: 19 November, 2020. Agent: **The Smith's Snackfood Co Ltd**, Rydalmere, NSW.

Sutera cordata Bacopa

### 'Lavender Showers'

Application No: 1998/145 Grantee: Australian Perennial Growers Pty Ltd, Glenorie, NSW. Certificate No: 1599 Expiry Date: 22 November, 2020.

Syzygium australe Lilly Pilly

### 'Elegance'

Application No: 1999/030 Grantee: **Brent E Wilson and A Rex Wilson**, Logan Reserve, QLD. Certificate No: 1627 Expiry Date: 7 December, 2025.

Telopea speciosissima Waratah

### 'Songlines'

Application No: 1996/135 Grantee: Yellow Rock Native Nursery Pty Ltd, Winmalee, NSW. Certificate No: 1593 Expiry Date: 9 October, 2020.

Trifolium michelianum Balansa Clover

### 'Bolta'

Application No: 1995/255 Grantee: **Minister for Primary Industries and Resources**, Adelaide, SA.

Certificate No: 1608 Expiry Date: 23 November, 2020.

### 'Frontier'

Application No: 1999/023 Grantee: Minister for Primary Industries and Resources, Adelaide, SA, The State of Western Australia through its department of agriculture called Agriculture Western Australia, South Perth, WA, Agriculture Victoria Services Pty Ltd, Attwood, VIC, Department of Agriculture for and on behalf of the State of New South Wales, Orange, NSW, Grains Research and Development Corporation, Barton, ACT and The Woolmark Company, Parkville, VIC.

Certificate No: 1628 Expiry Date: 8 December, 2020.

Trifolium resupinatum Persian Clover

### 'Lightning'

Application No: 1997/288 Grantee: **Seedco Australia Cooperative Limited**, Hilton, SA. Certificate No: 1642 Expiry Date: 19 December, 2020. *Trifolium subterraneum* ssp *brachycalycinum* **Subterranean Clover** 

### 'Antas'

Application No: 1999/147 Grantee: Istituto Sperimentale per le Colture Foraggere.

Certificate No: 1644 Expiry Date: 19 December, 2020. Agent: Seedco Australia Co-operative Limited, Hilton, SA.

*Trifolium subterraneum* ssp *subterraneum* **Subterranean Clover** 

### 'Campeda'

Application No: 1999/148 Grantee: Istituto Sperimentale per le Colture Foraggere.

Certificate No: 1643 Expiry Date: 19 December, 2020. Agent: **Seedco Australia Co-operative Limited**, Hilton, SA.

Triticum aestivum Wheat

### 'Chara'

Application No: 1999/332 Grantee: Agriculture Victoria Services Pty Ltd, Attwood, VIC and Grains Research and Development Corporation, Barton, ACT.

Certificate No: 1609 Expiry Date: 23 November, 2020.

### 'Mira'

Application No: 1999/333 Grantee: Agriculture Victoria Services Pty Ltd, Attwood, VIC and Grains Research and Development Corporation, Barton, ACT. Certificate No: 1614 Expiry Date: 19 November, 2020.

### **DENOMINATION CHANGED**

## Agapanthus orientalis Agapanthus

**'Snow Cloud'** syn **Summer Pearl** Application No: 1998/146 From: 'Summer Pearl'

Avena sativa Oat

### 'Nugene'

Application No: 1998/259 From: 'Nu Gene'.

### AGENT CHANGED

From: Plants Management Australia Pty Ltd To: Blooming Rights Pty Ltd For the following PBR applications:

Celosia argentia var cristata Cockscomb

**'Martine Pink'** Application No: 1998/063

**'Martine Red'** Application No: 1998/064

**'Martine Yellow'** Application No: 1998/062

Hypericum androsaeum Tuscan

**'Bosadua'**<sup>(b)</sup> syn **Dual Fair**<sup>(b)</sup> Application No: 1997/230 Certificate No: 1446

**'Bosakin'**<sup>(b)</sup> syn **King Fair**<sup>(b)</sup> Application No: 1997/227 Certificate No: 1443

**'Bosapin'**<sup>(b)</sup> syn **Pinky Fair**<sup>(b)</sup> Application No: 1997/229 Certificate No: 1445

**'Bosaque'**<sup>(b)</sup> syn **Queen Fair**<sup>(b)</sup> Application No: 1997/237 Certificate No: 1447

**'Bosasca'**<sup>(b)</sup> syn **Scarlet Fair**<sup>(b)</sup> Application No: 1997/230 Certificate No: 1444

### **CHANGE OF ASSIGNMENT**

From: Prophyl Pty Ltd and Swane Brothers Pty Ltd To: Prophyl Pty Ltd and Swane's Nurseries Australia Pty Ltd For the following PBP application:

For the following PBR application:

*Rosa* hybrid **Rose** 

**'Red Iceberg'** Application No: 1999/274

### CHANGE OF APPLICANT'S NAME

From: Minister of Primary Industries and Resources To: Minister of Primary Industries and Resources, The State of Western Australia through its department of agriculture called Agriculture Western Australia, Agriculture Victoria Services Pty Ltd, Department of Agriculture for and on behalf of the State of New South Wales, Grains Research and Development Corporation and The Woolmark Company. For the following PBR application: Trifolium michelianum Balansa Clover

### 'Frontier'

Application No: 1999/023 Certificate No: 162872

### CHANGE OF AGENT'S NAME

From: Swane Bros Pty Ltd To: Swane's Nurseries Australia Pty Limited For all PBR applications that include Swane Bros Pty Ltd as the agents.

# CONFIRMATION OF APPLICANT'S NAME

From:

Minister for Primary Industries & Resources acting through the South Australian Research and Development Institute SARDI, State of SA Primary Industry Resources – SA Minister for Primary Industries, Natural Resources and Regional Development Primary Industries & Resources SA SA Minister for Primary Industries, Natural Resources & Regional Development

To:

Minister for Primary Industries and Resources

for all the PBR applications that include the above names as applicant or joint applicant.

From:

NSW Agriculture New South Wales Agriculture NSW Department of Agriculture & Fisheries NSW Agriculture & Fisheries Minister for Agriculture and Fisheries of New South Wales NSW Minister for Agriculture and Fisheries

To: Department of Agriculture for and on behalf of the State of New South Wales

For all the PBR applications that include the above names as applicant or joint applicant.

### **APPLICATION REFUSED**

The following application was refused because it does not satisfy novelty requirement under subsection 43(6)(b)(ii) of *Plant Breeders Rights Act 1994.* 

Pisum sativum Field Pea

'Baccara'

Application No: 2000/314

### APPLICATIONS WITHDRAWN

The following varieties are no longer under provisional protection

Bracteantha bracteata **Everlasting Daisy** 

'Cable Beach' Application No: 1998/060

'Carrawine' Application No: 1998/059

'Greta' Application No: 1997/054

'Margaret Mcarthur' Application No: 1997/055

Cucurbita maxima Pumpkin

'Eudlo OHI' Application No: 1997/308

Hebe hybrid Hebe

'Southern Skies' Application No: 1999/220

Lavandula stoechas **Italian Lavender** 

'Bella White' Application No: 1999/255

Rosa hybrid Rose

'Grandalpha' Application No: 1999/299

'MK II' Application No: 1998/251

Triticum aestivum Wheat

'Clearfield WHT CSD' Application No: 2000/229

### GRANTS SURRENDERED

The following varieties are no longer under PBR protection:

Acacia boormanii **Snowy River Wattle** 

### **'Olympic Gold'**

Application No: 1993/222 Certificate No: 943

Alnus jorullensis Alder

### 'Royal Cascade' syn Weeping Willy Application No: 1991/097 Certificate No: 311

Alstroemeria hybrid **Peruvian Lily** 

### 'Stabuwit' syn Amanda

Application No: 1990/057 Certificate No: 367

Arachis hypogaea Peanut

### 'Shosh'

Application No: 1994/225 Certificate No: 944

Hebe hybrid Hebe

### 'Rosie'

Application No: 1993/242 Certificate No: 1214

Hordeum vulgare Barley

### 'Barque'

Application No: 1997/018 Certificate No: 1191

Isotoma axillaris Isotoma

'Sapphire Star' Application No: 1996/282 Certificate No: 1328

Juniperus conferta Shore Juniper

'Aussie Green N Gold' Application No: 1996/095 Certificate No: 1179

Koeleria cristata Koeleria

### 'Barkoel'

Application No: 1993/270 Certificate No: 520

Ornithopus hybrid **French Serradella** 

### 'Grasslands Spectra' Application No: 1995/072 Certificate No: 932

Phaseolus vulgaris Bean

# 'Phoenix'

### *Rosa* hybrid **Rose**

### **'Meibarke'** syn **Debut Meillandina** Application No: 1990/013 Certificate No: 75

**'Meinewkan'** syn **Chin Chin** Application No: 1995/288 Certificate No: 1117

**'Meineyta'** syn **Anita** Application No: 1995/102 Certificate No: 1120

**'Smooth Perfume'** syn **Hadperfume** Application No: 1993/265 Certificate No: 597

**'Smooth Prince'** syn **Hadprince** Application No: 1993/263 Certificate No: 595

Solanum tuberosum Potato

### 'Morene'

Application No: 1988/005 Certificate No: 143

'Smith's Stellar'

Application No: 1997/273 Certificate No: 1370

Triticum aestivum Wheat

### 'Yanac'

Application No: 1996/096 Certificate No: 1018

Vitis vinifera Grape

### **'Moss'** syn **Moss Early**

Application No: 1988/027 Certificate No: 211

### CORRIGENDA

Avena sativa Oat

**'Nugene'** Application No: 1998/259

In *PVJ* 12(1) p10, in the acceptance list the common name should be Oat rather than Barley.

Hibiscus syriacus Hibiscus

### **'Notwoodone'** syn Lavender Chiffon Application No: 2000/216

**'Notwoodtwo'** syn **White Chiffon** Application No: 2000/217

In *PVJ* 13(3) p12, in the acceptance list, the agent for these two PBR applications should be Fleming's Nurseries Pty Ltd and not Fleming's Nurseries and Associates Pty Ltd. *Leptospermum* hybrid **Tea Tree** 

### 'Daydream'

Application No: 1999/390

In *PVJ* 12(4) p14, in the acceptance list, the variety's name was incorrectly published as 'Dreamtime'. In fact, it should be 'Daydream'.

### Prunus domestica x Prunus armeniaca Prunus – Interspecific Plum

### 'Flavor Supreme'

Application No: 1994/166

In *PVJ* 13(3) p74, the common name of the variety was incorrectly published as Plumcot. In fact, it should be Prunus – Interspecific Plum.

### Triticum aestivum Wheat

### 'Petrie'

Application No: 1999/326

In *PVJ* 13(1) p 78 in the Origin and Breeding section, it was published that: 'Petrie' was developed as a typically intermediate maturing winter-sown wheat ..., where in fact it should read as: 'Petrie' was developed as a typically slow maturing winter-sown wheat well adapted to northeren wheat-growing regions of Australia.

### **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.

The Treasurer has determined that all statutory fees under PBR regulations will be exempted from 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 'nonvalid' 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).

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 nonpayment 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 44 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 breeders 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 75 of the Act.

### **FEES**

Basic Fees	Schedule			
	Α	В	С	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	
Application for declaration of essential derivation	800
Application for declaration of essential derivation Application for	800
Application for declaration of essential derivation Application for (a) revocation of a PBR	800 500
Application for declaration of essential derivation Application for (a) revocation of a PBR (b) revocation of a declaration	800 500
Application for declaration of essential derivation Application for (a) revocation of a PBR (b) revocation of a declaration of essential derivation	800 500 500
Application for declaration of essential derivation Application for (a) revocation of a PBR (b) revocation of a declaration of essential derivation Compulsory licence	800 500 500 500
Application for declaration of essential derivation Application for (a) revocation of a PBR (b) revocation of a declaration of essential derivation Compulsory licence Request under subsection 19(11) for exemption from	800 500 500 500

### **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 Paul **Brennan** PO Box 144 LENNOX HEAD NSW 2478 **Representing Plant Breeders** 

Ms Cheryl **McCaffery** Proprietor Eclipse IP Management PO Box 2221 Milton Business Centre MILTON QLD 4064 **Member with appropriate qualifications and experience** 

Mr David **Moore** Consultant Applied Economic and Technology Services PO Box 193 GAWLER, SA 5118 **Representing consumers** 

Mr Peter **Neilson** Crop and Food Research Birrabee Park Bowna via ALBURY NSW 2640 **Representing Plant Breeders** 

Mr Hugh **Roberts** Farmer 'Birralee' COOTAMUNDRA NSW 2694 **Representing Users** 

Ms Anna **Sharpe** Clayton Utz GPO Box 55 BRISBANE QLD 4000 **Member with appropriate qualifications and experience** 

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 PBR 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)
Almonds	Swinburn, Garth
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
Anigozant	108
8	Paananen, Ian
	Kirby, Greg
Aroid	Hamiaan D (
	Harrison, Peter
Avocado	
	Swinburn, Garth
	,
Azalea	
	Barrett, Mike
	Hempel, Maciej
	Paananen, Ian
Barley (Co	mmon)
2 <	Boyd, Rodger
	Brouwer, Jan
	Collins, David
	Khan, Akram
	Platz, Greg
Borry Fruit	
Delly Flui	Darmody Liz
	Eleming Graham
	Maddoy Zooo
	Pullar David
	Robinson Ben
	Scholefield Peter
	Senoreneid, Teter
Blueberry	
	Pullar, David
Bougainvil	len
Douganivn	Iradall Japat Willa
	fieden, 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	
Duquicia	Robb, John
	Paananen, Ian

Cactaceae	
	Friend, Joe
Camellia	
Camenia	Paananen. Ian
	Robb, John
Cassava	
Cassava	Tay David
	Tay, David
Cereals	
	Alam, Rafiul
	Bullen Kenneth
	Collins, David
	Cook, Bruce
	Cooper, Kath
	Cross, Richard
	Davidson, James
	Derera, Nicholas AM
	Fennell John
	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
	Stuart Peter
	Vertigan, Wayne
	Williams, Warren
	Wilson, Frances
Cherry	
Cheffy	Darmody, Liz
	Fleming, Graham
	Mackay, Alastair
	Maddox, Zoee
	Mitchell, Leslie
	Robinson Ben
	Scholefield, Peter
<u></u>	
Chickpeas	Brouwer Jap
	Chowdhury Doza
	Collins, David
	Goulden, David
Citrus	
Ciuus	Avash, Abdo
	Edwards, Megan
	Fox, Primrose
	Gingis, Aron
	Lee, Slade
	Mitchell Leslie
	Pullar, David
	Robinson, Ben
	Scholefield, Peter
	Swinburn, Garth
	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
	Ayash, Abdo
	Herrington Mark
	McMichael, Prue
	Pullar, David
	Robinson, Ben
	Scholeneid, Peter Sykes, Stephen
Cydonia	
5	Baxter, Leslie
Dogwood	D 1 1
	Darmody, Liz Eleming Graham
	Maddox, Zoee
	Stearne, Peter
Feijoa	
	Robinson, Ben Scholefield Peter
Eibao Ca	
ribre Crop	Ayash, Abdo
	Khan, Akram
Fig	<b>n</b>
	Darmody, Liz
	Fitzmenry, Damei Fleming, Graham
	Maddox, Zoee
	Pullar, David
Forage Bra	assicas Goulden. David
Forage Gr	25565
i orage Of	Berryman, Tim
	Fennell, John
	Harrison, Peter
	миру, ureg Mitchell Leslie
	Slatter, John
	Smith, Kevin
Forage Lea	gumes
	rennen, Jonn Foster Kevin
	Harrison, Peter
	Hill, Jeff
	Lake, Andrew
	Miller, Jeff Slatter, John
	Snowball, Richard
Forest Tree	es
	Lubomski, Marek
Fruit	Avesh Abdo
	Ayasn, Abdo Beal Peter
	Darmody, Liz
	Fleming, Graham
	Gingis, Aron
	Kennedy, Peter 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 Darmody, Liz Fleming, Graham Gingis, Aron Lee, Slade Maddox, Zoee Mitchell, Leslie Pullar, David Robinson, Ben Scholefield, Peter Stearne, Peter Swinburn, Garth Sykes, Stephen Grevillea Herrington, Mark Hydrangea Hanger, Brian Maddox, Zoee Impatiens Paananen, Ian Jojoba Dunstone, Bob Legumes Aberdeen, Ian Bahnisch, L Baker, Andrew Chowdhury, Doza Collins, David Cook, Bruce Cruickshank, Alan Downes, Ross Foster, Kevin Harrison, Peter Imrie, Bruce Kirby, Greg Khan, Akram 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 Khan, Akram Lucerne Lake, Andrew Mitchell, Leslie 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 Ayash, Abdo Bazzani, Mr Luigi Gingis, Aron Pullar, David Onions Cross, Richard Fennell, John Gingis, Aron Khan, Akram McMichael, Prue Pullar, David Robinson. Ben Scholefield, Peter Ornamentals - Exotic Abell, Peter Armitage, Paul Angus, Tim Ayash, Abdo Barth, Gail Beal, Peter Collins, Ian Cross, Richard Cunneen, Thomas Darmody, Liz Dawson, Iain Derera, Nicholas AM Eggleton, Steve Fisk, Anne Marie Fitzhenry, Daniel Fleming, Graham Gingis, Aron Harrison. Peter Hempel, Maciej Johnston, Margaret Kirkham, Roger Kwan, Brian Kulkarni, Vinod Lamont, Greg Larkman, Clive Lenoir, Roland Lowe, Greg Lubomski, Marek Lunghusen, Mark Maddox, Zoee McMichael, Prue Milne, Carolynn 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 Ayash, Abdo Barrett, Mike Barth, Gail Beal, Peter Cunneen, Thomas Dawson, Iain Derera, Nicholas AM Downes, Ross Eggleton, Steve 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 Milne, Carolynn 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 Croft, Valerie Harrison, Peter Kaapro, Jyri Kirby, Greg Loch, Don Miller, Jeff Mitchell, Leslie Rose, John

	Smith, Raymond Scattini, Walter John	Pulse Crops
	Slatter, John Smith, Kevin	I (
	Williams, Warren Wilson, Frances	(
Peanut		H
	Cruickshank, Alan	F
	Tay, David	S
Pear		Raspberry
	Baxter, Leslie	I
	Darmody, Liz Fleming, Graham	N
	Langford, Garry	I
	Mackay, Alastair	1
	Maddox, Zoee Malone, Michael	Phododondr
	Pullar, David	Hododendi
	Robinson, Ben Scholefield, Peter	I
	Tancred, Stephen	Roses
	Valentine, Bruce	I
Persimmo		I
<b>D</b>	Swindurn, Garth	I
Petunia	Paananen. Ian	I
	Nichols, David	0
Photinia		I
	Robb, John	N
Pistacia		ŀ
	Pullar, David Sykes Stephen	S
D:		
Pisum	Brouwer, Jan	S
	Chowdhury, Doza	V
	Goulden, David	Sesame
D. ( )		I
Potatoes	Avash, Abdo	I
	Baker, Andrew	Sorghum
	Cross, Richard	Ĩ
	Kirkham, Roger	
	McMichael, Prue	Soybean
	Pullar, David Robinson Ben	/ F
	Scholefield, Peter	J
	Stearne, Peter	Spices and N
Dratasaa		- I
Proteacea	Barth, Gail	r F
	Kirby, Neil	Stone Emit
	Robb, John Robinson, Ben	Stone Pluit
	Scholefield, Peter	I
Prunus		I
	Ayash, Abdo	ŀ
	Darmody, Liz Fleming, Graham	N N
	Kennedy, Peter	ľ
	Mackay, Alastair	I
	Maddox, Zoee Malone, Michael	ŀ
	Porter, Gavin	
	Pullar, David	V
	Witherspoon, Jennifer	Strawberry
	-	( F

	Bestow, Sue
	Brouwer, Jan
	Chowdhury, Doza
	Colling David
	Collins, David
	Cross, Richard
	Kidd Charles
	Ostas John
	Gates, John
	Poulsen, David
	Slatter John
	Statter, sonn
nherry	
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	Darmody, Liz
	Fleming, Graham
	Martin Stephen
	Pullar, David
	Robinson, Ben
	Scholefield Peter
	Senoreneid, Teter
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	Barrett, Mike
	Paananen, Ian
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	Barrett Mike
	Cross, Richard
	Darmody, Liz
	Fitzhenry Daniel
	Fitzhenry, Daniel
	Fleming, Graham
	Fox, Primrose
	Gingis Aron
	Uligis, Alui
	Hanger, Brian
	Lee, Peter
	Maddox Zoee
	Prescott, Chris
	Robinson, Ben
	Scholefield Peter
	Stearne, Peter
	Swane, Geoff
	Surue A Kim
	Sylus, A Kill
	Van der Ley, John
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	Bennett, Malcolm
	Harrison Datar
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	Slatter, John
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	Andrews, Judith
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	Hamison D-t
	Harrison, Peter
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ne Fruit	Harrison, Peter James, Andrew Medicinal Plants Derera, Nicholas AM Khan, Akram Pullar, David Ayash, Abdo Barrett, Mike Darmody, Liz Fleming, Graham Kennedy, Peter Mackay, Alistair Maddox, Zoee
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ne Fruit	Harrison, Peter James, Andrew Medicinal Plants Derera, Nicholas AM Khan, Akram Pullar, David Ayash, Abdo Barrett, Mike Darmody, Liz Fleming, Graham Kennedy, Peter Mackay, Alistair Maddox, Zoee Malone, Michael Pullar, David
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ne Fruit	Harrison, Peter James, Andrew Medicinal Plants Derera, Nicholas AM Khan, Akram Pullar, David Ayash, Abdo Barrett, Mike Darmody, Liz Fleming, Graham Kennedy, Peter Mackay, Alistair Maddox, Zoee Malone, Michael Pullar, David Robinson, Ben Scholefield, Peter
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ne Fruit	Harrison, Peter James, Andrew Medicinal Plants Derera, Nicholas AM Khan, Akram Pullar, David Ayash, Abdo Barrett, Mike Darmody, Liz Fleming, Graham Kennedy, Peter Mackay, Alistair Maddox, Zoee Malone, Michael Pullar, David Robinson, Ben Scholefield, Peter Swinburn, Garth Valentine, Bruce
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	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 Khan, Akram Martin, Stephen McMichael, Prue Pullar, David Robinson, Ben Scholefield, Peter
Tree Crops	Friend Ioe
	McRae, Tony
Triticale (x	Triticosecale Wittmack) Collins, David
Tropical/Su	Ayash, Abdo Harrison, Peter Kulkarni, Vinod Pullar, David Robinson, Ben Scholefield, Peter Tay, David Winston, Ted
Umbrella T	ree Paananen, Ian
Vegetables	Alam, Rafiul Ayash, Abdo Baker, Andrew Beal, Peter Cross, Richard Derera, Nicholas AM Fennell, John Frkovic, Edward Gingis, Aron Harrison, Peter Kirkham, Roger Khan, Akram Lenoir, Roland McMichael, Prue Oates, John Pearson, Craig Pullar, David Robinson, Ben Scholefield, Peter Tay, David Westra Van Holthe, Jan
Verbena	Paananen, Ian
Wheat (Aes	stivum & Durum Groups) Brouwer, Jan Collins, David Khan, Akram Platz, Greg

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Anous Tim	02 6955 7580 fax	Southern NSW, Northern VIC
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0 1 1 1 1	64 3 325 2074 fax	New Zealand
Cruickshank, Alan	07 4160 0722 07 4162 3238 fax	OLD
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~	02 4889 8657 fax	Sydney Region
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	02 6246 5399 fax	temperate Australia
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_	0414 639 307 mobile	Australia
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	02 02/0 40/0 Iax 0414 955258 mobile	ACT. South East Australia
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	03 5024 7470 fax	
	0418 532 354	VIC/NSW

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Melbourne Region Australia Sydney and surrounding districts Australia Mediterranean areas of Australia Northern QLD & NSW Australia Australia Victoria, South Australia and Southern NSW New Zealand Victoria QLD, NSW VIC & SA Tropical/Sub-tropical Australia, including NT, NW of WA and tropical arid areas NSW, QLD, VIC, SA Australia Southern Queensland South Australia Southern Queensland SE Australia SE Queensland South West WA Australia SE Queensland Sydney and surrounding areas North Western Victoria New South Wales New South Wales Southern Australia South Australia New South Wales Victoria North Western NSW Australia Australia SE Australia Sydney region Australia Victoria Toowoomba region SE Australia

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Leske, Richard	0/ 40/1 3130 07 4671 3113 fax	of OLD & NSW	Scholefield Peter	08 8373 2488	Australia
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	07 3286 3094 fax	Queensland		018 082022 mobile	SE Australia
Lowe, Greg	02 4389 8750		Singh, Deo	0418 880787 mobile	
	02 4389 4958 fax		01 ··· · · · ·	07 3207 5998 fax	Brisbane
Lubomski Morak	0411 32/390 mobile	Sydney, Central Coast NSW	Slatter, John	07 4635 0726 07 4635 2772 fox	
Lullfitz Robert	08 9447 6360	South West WA		0155 88086 mobile	Australia
Lunghusen, Mark	03 9752 0477	Sould West MA	Smith, Kevin	03 5573 0900	Tustiana
<u> </u>	03 9752 0028 fax			03 5571 1523 fax	SE Australia
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Mackay, Alastair	08 9310 5342 ph/fax	W/s -to -up A -so -to -1: -	Current all Distant	03 6334 4961 fax	SE Australia
Maddox Zoee	0139 87221 mobile 03 9756 6105	western Australia	Showball, Kichard	08 9508 5517	Australia
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	03 6231 4508 fax	Termonie	Stuart, Peter	07 4690 2666 07 4620 1062 for	SE Queensland
McCarthy Alec	08 9780 6273	Tasmama	Swane Geoff	02 6889 1545	SE Queensiand
ine carany, i nee	08 9780 6136 fax	South West WA	Straite, Oton	02 6889 2533 fax	
McMichael, Prue	08 8373 2488			0419 841580 mobile	Central western NSW
	08 8373 2442 fax	SE Australia	Swinburn, Garth	03 5023 4644	Murray Valley Region - From
McRae, Tony	08 8723 0688	A 4 1		03 5021 3131 fax	Swan Hill (Vic) to Waikere
Miller Jeff	08 8/25 0000 Tax 64 6 356 8019 extr 8027	Australia Manawatu region	Sykes Stephen	03 5051 3100	(5A)
winter, sen	64 3 351 8142 fax	New Zealand	Sykes, Stephen	03 5051 3111 fax	Victoria
Milne, Carolynn	07 3206 3590	Queensland	Syrus, A Kim	03 8556 2555	
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Molyneux, William	03 5965 2011			0157 62888 mobile	OLD, NSW
	03 5965 2033 fax	Victoria	Tay, David	07 5460 1313	
Morgan, Terence	07 4783 6000			07 5460 1112 fax	Australia
Mamiaan Dmaa	07 4783 6001 fax	Australia	Topp, Bruce	07 4681 1255 07 4681 1760 for	SE OLD Northam NSW
Morrison, Bruce	03 9210 9231 03 9800 3521 fax	Fast of Melbourne	Valentine Bruce	07 4081 1709 lax	SE QLD, Northern NSW
Nichols, David	03 5977 4755	SE Melbourne, Mornington	valentine, Druce	02 6361 3573 fax	New South Wales
	03 5977 4921 fax	Peninsula, Dandenong	Van Der Ley, John	02 6561 5047	
		Ranges, Victoria		02 6561 5138 fax	Sydney to Brisbane and
Nichols, Phillip	08 9387 7442	Western Assets	Mantin an Milana	0417 423 768 mobile	New England area
Nutt Bradley	08 9383 9907 Tax 08 9387 7423/	western Australia	vertigan, wayne	03 6330 5221 03 6334 4961 fax	Teemania
Nutt, Diadicy	08 9383 9907 fax	Western Australia	Washer, Stewart	08 9300 9995	Tasmama
Oates, John	02 4651 2601	Sydney region,		08 9407 5070 fax	
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Thui, oreg	07 4639 8800 fax	QLD, Northern NSW	Westra Van Holthe, Jan	03 9706 3033	i ordi riegion
Porter, Gavin	07 5460 1231			03 9706 3182 fax	Australia
	07 5460 1455 fax	SE QLD, Northern NSW	Williams, Warren	64 6 356 8019 NZ	
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Prescott Chris	07 4001 5257 Tax 03 5964 2780 ph/fax	SE QLD, Northern NSW	Wilson Frances	02 0351 8047 Tax AUS 64 3 318 8514	New Zealand
r rescou, chins	0417 340 558 mobile	Victoria	wilson, i rances	64 3 318 8549 fax	Canterbury, New Zealand
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0 ·	0418 575 444 mobile	Australia	XX7:4 X 10	0412 534 514 mobile	QLD, Northern NSW and NT
Quinn, Patrick Robb, John	05 5427 0485	SE Australia	Witherspoon, Jennifer	0407 688 457 mobile	South Australia
KOOU, JUIII	02 4376 1271 fax		11011aii, IX088	02 4348 1910 fax	Australia
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### **APPENDIX 4**

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### **APPENDIX 5**

#### ADDRESSES OF UPOV AND MEMBER STATES

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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

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Instituto Nacional de Semillas Ministerio de Economia Secretaria de Agricultura Ganaderia y Pesca Avda. Paseo Colon 922-3. Piso, 1063 Buenos Aires

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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 e-mail: raad.kwekersrecht@rkr.agro.nl

### 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

Plantesortsnemnda (The Plant Variety Board) Frokontrollen 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 Comercio e Industrias Apartado 9658- Zona 4 Panama 4

Phone: (507) 227 3987 Fax: (507) 227 2139 e-mail: digerpi@sinfo.net

### 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

Research Center of Cultivars Testing (COBORU) 63-022 Slupia Wielka

Phone: (48 61) 285 2341 Fax: (48 61) 285 3558 e-mail: coboru@bptnet.pl

### PORTUGAL

Centro Nacional de Registo de Variedades Protegidas (CENARVE) Edificio II da DGPC Tapada da Ajuda P-1300 Lisboa

Phone: (351 213) 613 216 Fax: (351 213) 613 222 e-mail: dgpc.cenarve@mail.telepac.pt

### **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., 1/11 107139 Moscow

Phone: (70-95) 204 49 26 Fax: (70-95) 207 86 26 e-mail: desel@agro.aris.ru

### SLOVAKIA

Ministry of Agriculture Dodrovicova 12 812 66 Bratislava

Phone: (421 7) 306 62 90 Fax: (421 7) 306 62 94

#### **SLOVENIA** Plant Variety Protection and Registration Office Parmova 33 1000 Ljubljana

Phone: (386-61) 136 3344 Fax: (386-61) 136 3312 e-mail: UVRSR@gov.si

### SOUTH AFRICA

The Registrar National Department of Agriculture Directorate of Plant and Quality Control PO Box 25322 Gezina

Phone: (27 12) 808 0365 Fax: (27 12) 808 0365 e-mail: variety.control@nda.agric.za

### SPAIN

Oficina Espanola de Variedades Vegetales (OEVV) Instituto Nacional de Investigacion y Tecnologia Agraria y Alimentaria Ministerio de Agricultura, Pesca y Alimentacion

Jose Abascal, 4-7<sup>a</sup> pl. E-28003- Madrid

Phone: (34 91) 347 66 00 Fax: (34 91) 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 e-mail: info@vaxtsortnamnden

### 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

Tel: (1 868) 625 9972 Fax: (1 868) 624 1221 e-mail: Controller.IPOffice@opus.co.tt

### 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

Instituto Nacional de Semillas (INASE) Casilla de Correos 7731 Pando Canelone

Phone: (59 82) 288 7099 Fax: (59 82) 288 7077 e-mail: inasepre@adinet.com.uy

### **EUROPEAN UNION**

(for applications filed within the ÈU)

**Community Plant Variety Office** P.O. Box 2141 F-49021 Angers Cedex FRANCE

Phone: (33 2) 41 25 64 32 Fax: (33 2) 41 25 64 10

#### **CURRENT STATUS OF PLANT** VARIETY PROTECTION LEGISLATURE IN UPOV MEMBER COUNTRIES

Argentina<sup>2</sup> Australia<sup>3</sup> Austria<sup>2,4</sup> Belgium<sup>1,4</sup> Bolivia<sup>2</sup> Brazil<sup>2</sup> Bulgaria<sup>3</sup> Canada<sup>2</sup> Chile<sup>2</sup> China<sup>2</sup> Columbia<sup>2</sup> Czech Republic<sup>2</sup> Denmark<sup>3,4</sup> Ecuador<sup>2</sup> Finland<sup>2, 4</sup> France<sup>2, 4</sup> Germany<sup>3,4</sup> Hungary<sup>2</sup> Ireland<sup>2,4</sup> Israel<sup>3</sup> Italy<sup>2,4</sup>

Japan<sup>3</sup> Kenya<sup>2</sup> Kyrgyzstan<sup>3</sup> Mexico<sup>2</sup> Netherlands<sup>3,4</sup> New Zealand<sup>2</sup> Norway<sup>2</sup> Panama<sup>2</sup> Paraguay<sup>2</sup> Poland<sup>2, 5</sup> Portugal<sup>2, 5</sup> Republic of Estonia<sup>3</sup> Republic of Moldova<sup>3</sup> Russian Federation<sup>3</sup> Slovakia<sup>2,5</sup> Slovenia<sup>5</sup> South Africa<sup>2,5</sup> Spain<sup>1,4</sup> Sweden<sup>3,4</sup> Switzerland<sup>2</sup> Trinidad and Tobago<sup>2</sup> Ukraine<sup>2</sup> United Kingdom<sup>3,4</sup> USA<sup>3</sup> Uruguay<sup>2</sup> (Total 46)

- Bound by the 1961 Act as amended by the Additional Act of 1972. Bound by the 1978 Act. 1
- 2
- Bound by the 1991 Act. 3
- Δ Member of the European Community which has introduced a (supranational) Community plant variety rights system based upon the 1991 Act.
- Has already amended its law to conform to the 1991 Act; most other states are in 5 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 Perennia tall fescu tall whea white clo persian o		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	nthus Greenhouse, tissue culture with commercial partnership		I Paananen	31/12/98
Paradise Plants	Kulnura, NSW	Camellia, Lavandula, Osmanthus, Ceratopetalum		Field, glasshouse, shadehouse, irrigat tissue culture lab	J Robb ion,	31/12/98
Prescott Roses	Berwick, VIC	Rosa		Field, controlled C Prescott environment greenhouses		31/12/98
F & I Baguley Flower and Plant Growers	Clayton South, VIC	Euphorbia	<i>Euphorbia</i> Controlled glasshouses, quarantine facilities, tissue culture		G Guy s,	31/3/99
Paradise Plants	Kulnura, NSW	Limonium, Raphiolepis Eriostemon Lonicera, Ja	, asminum	Field, glasshouse, shadehouse, irrigat tissue culture lab	J Robb ion,	
Ramm Pty Ltd	Macquarie Fields, NSW	Angelonia		Glasshouse	I Paananen	
Carol's Propagation	Alexandra Hills, QLD	Cuphea	Cuphea Field beds, wide range of comparati varieties		C Milne ve	
Queensland Department of Primary Industries Redlands Research Station	Cleveland, QLD	<i>Cynodon, Zoysia</i> and other selected warm season- season turf and amenity species		Field, glasshouse, irrigation, tissue culture lab	D Loch	30/9/00
Luff Partnership	Kulnura, NSW	Bracteanthe	Field beds, irrigation shade house, propagation house, cool rooms		on, I Dawson	31/12/00
Ramm Pty Ltd	Macquarie Fields, NSW	Petunia, Ca	librachoa	Glasshouse	I Paananen	31/12/00
The following applica	tions are pending:					
Name	Location		Genera	applied for	Facilities	Name of QP
NSW Agriculture	Temora	Triticum, Hordeum		e, Avena	field irrigation, glasshouse, climate controlled areas	P Breust
Bywong Nursery	Bungendor	Bungendore, NSW Leptospe		rmum	Field, shadehouse greenhouse	P Ollerenshaw
Outeniqua Nursery	Monbulk, VIC Unspecif		ied	Outdoor, glasshouse		
University of Queensland, Gatton College	Lawes, QLD Ornamer wheat, n <i>Capsicus</i> <i>Ipomea,</i> <i>Lycoper</i> . Asian ve		tal & bedding sp., illet, <i>Prunus,</i> <i>n, Glycine,</i> <i>Vigna,</i> <i>icon,</i> getables,	Field, irrigation, glasshouse, small phytotron, plant nursery & propagation, tissue culture, seed and chemical lab,	L Bahnisch R Fletcher D George M Johnston G Lewis G Porter	

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:

Tropical fruits, Solanum

D Tay

A Wearing D Hanger

cool storage

The Registrar Plant Breeders Rights Office PO Box 858 CANBERRA ACT 2601 Fax (02) 6272 3650 Closing date for comment: 15 March 2001.

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### **APPENDIX 7**

## LIST OF CLASSES FOR VARIETY DENOMINATION PURPOSES<sup>1</sup>

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.]

<u>Note</u>: 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

<u>Class 4</u>: Agrostis, Alopecurus, Arrhenatherum, Bromus, Cynosurus, Dactylis, Festuca, Lolium, Phalaris, Phleum, Poa, Trisetum

<u>Class 5</u>: Brassica oleracea, Brassica chinensis, Brassica pekinensis

<u>Class 6</u>: Brassica napus, B. campestris, B. rapa, B. juncea, B. nigra, Sinapis

<u>Class 7</u>: Lotus, Medicago, Ornithopus, Onobrychis, Trifolium

Class 8: Lupinus albus L., L. angustifolius L., L. luteus L.

Class 9: Vicia faba L.

<u>Class 10</u>: Beta vulgaris L. var. alba DC., Beta vulgaris L. var. altissima

<u>Class 11</u>: 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

<u>Class 26</u>: Epiphyllum, Rhipsalidopsis, Schlumbergera, Zygocactus

Class 27: Proteaceae

### COMPLEMENTARY CLASSES

<u>Class 28:</u> Species of <u>Brassica</u> other than (in Class 5 + 6) Brassica oleracea, Brassica chinensis, Brassica pekinensis + Brassica napus, B. campestris, B. rapa, B. juncea, B. nigra, Sinapis

<u>Class 29:</u> Species of <u>Lupinus</u> other than (in Class 8) Lupinus albus L., L. angustifolius L., L. luteus L.

<u>Class 30:</u> Species of <u>Vicia</u> other than (in Class 9) Vicia faba L.

<u>Class 31:</u> Species of <u>Beta</u> + subdivisions of the species <u>Beta</u> <u>vulgaris</u> 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

<u>Class 32:</u> Species of <u>Cucumis</u> other than (in Class 13 + 14) Cucumis sativus + Citrullus, Cucumis melo, Cucurbita

<u>Class 33:</u> Species of <u>Solanum</u> other than (in Class 21) Solanum tuberosum L.

<u>Class 34:</u> Species of <u>Nicotiana</u> other than (in Class 22) Nicotiana rustica L., N. tabacum L.

<u>Class 35:</u> Species of <u>Helianthus</u> other than (in Class 23 + 24) Helianthus tuberosus + Helianthus annuus

<sup>\*</sup> 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.

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

\*In accordance with an amendment to section 61 of *Plant Breeder's Rights Act* 1994, the Register of Plant Varieties will be kept only in one location, the Library of PBR Office in Canberra. Please contact PBR Office if you need further information.

### **APPENDIX 9**

**Common Name to Botanical Name Index** For varieties included in this issue

**COMMON NAME** Agapanthus Alder Alstroemeria Anisodontea Apple Arizona Cypress Baby's Breath Bacopa Balansa Clover Banksia Rose Barley Bean Bougainvillea Bower Wattle Box Honeysuckle Canola Cape Daisy Ceanothus Cockscomb Condiment Paprika Confetti Bush Coprosma Cotton Dwarf Chilli Easter Daisy Everlasting Daisy Feather Flowers Field Pea French Serradella Giant Water Gum Grape Grevillea Hebe Hibiscus Impatiens Isotoma Italian Lavender **Italian Ryegrass** Ivy Pelargonium Japanese Elm Koeleria Lavender Lilly Pilly Mango Moroccan Glory Bind Narrow-Leafed Lupin Nectarine Nemesia New Guinea Impatiens Oat Peach Peanut Pelargonium Persian Clover Peruvian Lily

**Pincushion Flower** 

**BOTANICAL NAME** Agapanthus orientalis Alnus jorullensis Alstroemeria hybrid Anisodontea capensis Malus domestica Cupressus glabra Gypsophila paniculata Sutera cordata Trifolium michelianum Rosa banksiae Hordeum vulgare Phaseolus vulgaris Bougainvillea hybrid Acacia cognata Lonicera nitida Brassica napus var oleifera Osteospermum ecklonis Ceanothus gloriosus Celosia argentia var cristata Capsicum annuum var longum Coleonema pulchrum Coprosma hybrid Gossypium hirsutum Capsicum annuum var fasciculatum Aster hybrid Bracteantha bracteata Verticordia plumosa hybrid Pisum sativum Ornithopus hybrid Syzygium francisii Vitis vinifera Grevillea hybrid Hebe hybrid Hibiscus syriacus Impatiens wallerana Isotoma axillaris Lavandula stoechas Lolium multiflorum Pelargonium peltatum hybrid Zelcova serrata Koeleria cristata Lavandula angustifolia Acmena smithii Mangifera indica Convolvulus sabiatus Lupinus angustifolius Prunus persica var nucipersica Nemesia foetens Impatiens hybrid Avena sativa Prunus persica Arachis hypogaea Pelargonium xhortorum Trifolium resupinatum Alstroemeria hybrid Scabiosa columbaria

### **COMMON NAME** Pittosporum

Plantain Lily Potato Prunus – Interspecific Plum Pumpkin Red Boronia Red Clover Rose Scabious Shore Juniper Snapdragon Snowy River Wattle Spotted Gum Strand Medic Subterranean Clover

Sugarcane Swamp Mahogany Tea Tree Triticale Tully River Stenocarpus Tuscan Verbena Wallflower Waratah Wheat Whirling Butterfly White Clover White Lupin Willow Myrtle

### **BOTANICAL NAME** Pittosporum bicolor x Pittosporum undulatum Hosta hybrid Solanum tuberosum Prunus domestica x Prunus armeniaca Cucurbita maxima Boronia heterophylla *Trifolium pratense* Rosa hybrid Scabiosa columbaria Juniperus conferta Antirrhinum hybrid Acacia boormanii Corymbia maculata Medicago littoralis Trifolium subterraneum ssp brachycalycinum Trifolium subterraneum ssp subterraneum Saccharum hybrid Eucalyptus robusta Leptospermum hybrid **x***Triticosecale* Stenocarpus sp Hypericum androsaeum Verbena hybrid *Ervsimum* hybrid Telopea speciosissima Triticum aestivum Gaura lindheimeri Trifolium repens Lupinus albus Agonis flexuosa nana

# **Register of Australian Winter Cereal Cultivars**

### Varietal Descriptions from the Voluntary Scheme for the Registration of Cereal Cultivars

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 dateName and address of
- OriginatorsName 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: <u>always</u> format your description <u>in</u> <u>a single column</u>, **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

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