



Plant Varieties Journal

June 1992 Volume 5 Number 2



Official Journal of the Australian Plant Variety Rights Office





COOPERATIVE RESEARCH CENTRE FOR PLANT SCIENCE in association with the AUSTRALIAN PLANT VARIETY RIGHTS OFFICE, DPIE

presents a Workshop on

MOLECULAR TECHNIQUES FOR ESTABLISHING PLANT VARIETY RIGHTS

to be held on

THURSDAY 30 JULY 1992

10 am to 3 pm

WHEAT RESEARCH INSTITUTE, TOOWOOMBA QLD

The CRC for Plant Science and the PVR office are developing techniques for the molecular description of plants, using in particular, molecular technology.

The Workshop, which is open to all interested parties, at no cost, will include the following sections:

- the CRC for Plant Science its mission and role in developing techniques
- . the PVR scheme and the advantages of molecular descriptions
- . a description of currently available technologies for molecular description including RFLP mapping, PCR methods and protein gel electrophoresis
- . the legal issues relating to protection of intellectual property
- . feedback from growers, breeders, corporations which areas (species or industry sectors) have the greatest need for molecular characterisation?

The CRC for Plant Science has a strategy for developing techniques and procedures for plant characterisation. PVR issues will be included in the Centre's Education program. If there is sufficient industry demand, the Centre will also establish a testing facility which, using approved protocols, will be offered as a service to industry, both in Australia and overseas.

All interested persons are invited to attend and should confirm their attendance with Dr Paul Brennan, Wheat Research Institute (telephone: (076) 346 644).

Contact with the Plant Science Centre can be made with Chris Buller, Executive Officer, Telephone: (06) 249 2330 Fax (06) 247 5896

Contents

Editorial	2
Part 1—General	
Molecular Techniques and PVR	3
Amendments to the PVR Act	3
Rother and Kientzler's 50th	3
Royalty Collection Agency	4
Centralised Testing of Varieties	4
Trade Marks and Varietal Names	4
Descriptions	4
Accreditation for 'Qualified Persons'	4
Part 2—Public Notices	
List of varieties included in this journal	5
PVR Granted	5
Applications Accepted	6
(a) descriptions finalised	6
(b) descriptions to be finalised	35
Objections	36
Variations to Applications	36
Corrigenda	36
Appendix 1—Fees	37
Appendix 2—Organisations offering to undertake PVR trials	37
Appendix 3—Plant Variety Rights Advisory Committee (PVRAC)	38
Appendix 4—Letters to the Editor	39

PLANT VARIETY RIGHTS OFFICE, GPO BOX 858, CANBERRA ACT 2601 Telephone: (06) 272 4228 Facsimile: (06) 272 3650

Subscriptions are available from the

Plant Variety Rights Office, Department of Primary Industries and Energy, GPO Box 858, Canberra, ACT, 2601.

ISSN: 1030 9748

This publication is copyright. Apart from any use as permitted under the Copyright Act 1968, no part may be reproduced without written permission from the Director, Plant Variety Rights. Inquiries should be directed to the Director, Plant Variety Rights Office.

Editorial

The PVR Office and the Advisory Committee continually strive to provide a more convenient, efficient and effective PVR Scheme in Australia. Several ongoing and new developments, the details of which are given in the following pages of this issue, will contribute to these goals.

The program of amendments to the Act to improve the PVR Scheme is on schedule and we anticipate that they will go into effect by the end of 1992. The change of the name of the Act to "Breeder's Rights Act" is among the more notable of the proposed amendments. This change will not make any impact on the operations of the PVR Scheme. The scheme will in time become the "Breeder's Rights Scheme". PVR will be "BR" and so on. The question that arises is why change the name. The aim of this change is to emphasise that the Act, like the 1991 UPOV Convention, is focused on the rights of the breeder rather than the variety. In addition, if it is considered in the national interest to do so in the future, the change of name will technically pave the way to extend the scheme to non-plant species, such as fungi and other non-plant species, which is the trend in several other member countries of UPOV. Other proposed amendments are detailed in Part 1 of this issue.

The September 1991 issue of the *Plant Varieties Journal* gave details of policy on the use of chemical characters in DUS test data. An innovative development over the past months has been the establishment of a collaborative project between the PVR Office and the Cooperative Research Centre for Plant Science (based at Australian National University) to place molecular techniques for establishing DUS on a standardised basis. The PVR Office believes that molecular criteria will, over the next decade, increasingly play an important role in the identification of new varieties for breeder's rights.

Centralised testing by independent agencies on behalf of a consortium of breeders has considerable merit and is strongly recommended for consideration by all breeders. The technical, legal and cost advantages of centralised testing are given in this issue and they appear to outweigh any perceived disadvantages. The PVR Office proposes to amend fee regulations in 1992 so as to pass on to applicants the reductions in cost of the field examination of several varieties at centralised test sites.

Collection of royalties on protected varieties can be a costly burden on breeders and may detract from the advantages of PVR. The formation of a private, independent breeder's royalty collection agency similar to the successful scheme in the UK descibed in the following pages may be a less costly and a more effective way for breeders to collect royalties.

Due to the unstinting efforts of the PVR office staff and the cooperation of all their clients the PVR Scheme is likely to achieve all the projected performance targets for the 1991/92 financial year. The basic targets were: 160 applications, 60% cost recovery and no rise in the cost of the scheme for the taxpayer.



CLOSING DATE FOR SEPTEMBER ISSUE 22 JULY 1992

Editorial Panel:

Registrar:

Dr Mick Lloyd

Examiners:

David Thearle, Mark Kethro, Libby Pulsford

Administration:

Margaret Winsbury

Assistance with scientific names from Lyn Craven, Australian National Herbarium, Division of Plant Industry, CSIRO.

The editors welcome comments and short articles from all sectors of the plant breeding industry for publication in the Plant Varieties Journal. Authors should follow the guide on the inside back cover.



Dr Mick Lloyd



Libby Pulsford



Mark Kethro



Margaret Winsbury



David Thearle

Part 1—General

Molecular Techniques and PVR

A successful application for Plant Variety Rights protection depends on the breeder demonstrating that their variety meets three essential criteria; distinctiveness, uniformity and stability. At present, these criteria are typically assessed by comparisons of the morphology of similar plants grown in a comparative growing trial. However, there is growing interest in establishing biochemical or molecular biology techniques, which analyse the protein or DNA content of plants, to supplement or supersede morphological comparisons as the evidence on which Plant Variety Rights applications are based. The availability of biochemical or molecular biology techniques would also assist breeders in defending their property in cases where the breeder believes their rights have been infringed.

On Thursday July 30, the PVR Office and the Plant Science Centre will conduct a workshop in Toowoomba on the biochemical and molecular biology techniques which can be used to support Plant Variety Rights applications. Workshop presentations will show how the techniques can be used to support PVR applications, discuss the legal implications of the use of the techniques, and will describe the techniques and their application to PVR. The workshop will also provide a forum for industry, researchers, and PVR Office staff to identify present and future industry needs, and the research and support services necessary to service those needs.

The Plant Science Centre was recently established in Canberra as part of the network of Cooperative Research Centres set up by the Federal Government in 1990 to foster collaboration between universities, the CSIRO, Government agencies and industry. The Plant Science Centre brings together researchers from the Australian National University, the CSIRO Division of Plant Industry, Biocem Pacific and a number of industry partners. The Centre aims to exploit and develop techniques for improving plants for Australian agriculture.

The workshop is free however registration will be necessary to secure a place. Further information can be obtained from Chris Buller on telephone (06) 249 2330, fax (06)248 9995.

Amendments to the Act for a more effective Breeder's Rights

Over the past two years this journal has carried details of changes to the UPOV convention and some indications of consequential changes needed in Australia's Act if we are to accede to the new convention. The following proposed amendments summarise for the first time *all* the proposed amendments to the PVR Act and the public is invited to comment.

It is proposed that the name of the Act be changed to **Breeder's Rights Act** to conform to the main focus of the 1991 UPOV Convention. The 1991 Convention is more logically and explicitly directed to the intellectual property rights of the <u>breeder</u> not the plant variety.

The name change will provide for an extension of protection by regulation to non-plant species (e.g., fungi) under Section 44(2)(a) of "the Act" should the Minister with advice from the PVRAC consider it in the national interest.

There will be included provisions regulating the appointment procedures and terms of office of members of the Advisory Committee which were previously omitted from the Act.

Breeder's rights will be better defined to *restore* the effectiveness of protection which has been eroded by the advent of biotechnological methods of plant breeding since the last revision of the UPOV Convention in 1978. Exclusions from the breeders rights will be specified; including the use of protected varieties for *bona vide* non-commercial purposes, scientific research, breeding and farm saved seed.

Of importance to breeders of seed crops will be the proposed provision for a new form of low cost protection ('propriety protection'), during which no sale of the variety is permitted, to specifically cater for the vulnerable, agronomic testing phase of advanced elite lines and inbreds. This will be a simple application procedure, require a seed deposit, and be renewable every five years. Commercially proven, proprietary protected lines can be progressed through provisional protection and be granted PVR using standard application and examination procedures.

The amendments will provide for mandatory labelling of protected propagation material offered for sale as requested by the Grains Council of Australia and the nursery industry.

The duration of breeder's rights will be stated as being not less than 20 years to cater for those species (eg, forest and vine) which have very long breeding and growth cycles.

It is proposed to introduce a penalty for infringement, similar to that in copyright and trade marks; which has been requested by breeders and the nursery industry as deterrent to diminish the likelihood of court action and/or to lower litigation costs as Australia's relatively small markets cannot justify the high court costs needed to protect breeder's rights.

Rother and Kientzler's 50th

Mr Roy Rother of Emerald in Victoria has submitted fifty applications for PVR in Australia. Roy is Australian agent for Kientzler KG, Germany, and the majority of the varieties have been Kientzler *Impatiens hawkeri* hybrids. Those varieties are now a familiar sight in nurseries throughout Australia. A *Brachyscome multifida* x *rigidula*, numerous hydrangeas and chrysanthemums a Sanvitalia and a *Lysimachia congestiflora* named 'Sunbird' will soon be added to the range.

A Brachyscome multifida x rigidula named 'Toucan Tango' is the subject of Roy's fiftieth application for PVR. 'Toucan Tango' is to be released in spring.



Roy Rother with the new Brachyscome 'Toucan Tango'.

Royalty Collection Agency

At a recent seminar on PVR for patent attorneys and relevent industry persons organised by Blake Dawson Waldron at their Sydney offices, the question of a central agency to administer royalty collection was raised. "Blakes" have actively pursued the matter on behalf of plant breeders and has provided the PVR Office with details of a scheme based on that operated by the British Society of Plant Breeders Ltd.

The UK Plant Royalty Bureau Ltd was established in 1986 by plant breeders to administer their rights under the Plant Variety and Seeds Act 1964. In 1987 the Plant Royalty Bureau and the British Association of Plant Breeders Ltd amalgamated with the aim of better coordinating the commercial and technical functions of the two previously independent associations.

All reports suggest that the UK scheme is cost-effective and that the two functions of the amalgamated British Society of Plant Breeders Ltd are complementary and efficiently serve the commercial and technical interests of plant breeders.

It is timely to consider a similar organisation for Australia which can centrally regulate, standardise and administer royalty collection on behalf of breeders whilst simultaneously coordinating their technical and commercial interests.

Centralised testing of varieties

The response to the proposed centralised testing facility for native species was minimal suggesting that such a facility designed to assist with registration of Australian natives overseas would not be viable. Interested breeders of native species should approach the PVR Office as a group if they wish the Office to pursue the matter further.

The establishment of a centralised testing scheme by a consortium of Australian and New Zealand public and private ryegrass breeders is a model for centralised testing of other species. The ryegrass scheme is an extension of the successful New Zealand centralised testing facility. The PVR Office encourages other breeders to establish similar facilities in Australia for other agricultural and horticultural crops.

Centralised testing is carried out in accordance with an approved test protocol by an agency under contract to a consortium of breeders.

Consideration should be given by breeders to the prospects of combining performance testing for cultivar registration with DUS tests for PVR.

Competitive rates charged by testing agencies, combined with economies of scale in centralised testing and greater technical standardisation will reduce costs, increase the technical rigour of tests and possibily even the legal sustainability of rights. In addition, the reduction in field examination costs to the PVR Office will be passed to the applicant in the form of reduced examination fees.

Trade Marks and Varietal Names

Sub-section 40(f) of the *Plant Variety Rights Act 1987* deems that a grantee's PVR is infringed by a person who uses the name of that plant variety, being the name entered in the Register, in relation to any other plant variety or in relation to any plant other than a plant of the first-mentioned variety.

This means that selling another plant variety with a name of a protected variety is infringing the grantee's rights. PVR protects both the variety and its registered name. Applicants must register their varieties under the name by which it is to be marketed to enjoy this protection.

The name of a plant variety cannot be registered as a trade mark since it is the name by which the plant is described and is excluded from registration under sub-section 24 (1)(d) of the *Trade Mark Act 1955*. Therefore a plant variety cannot be protected by trade mark registration. Trade marks which indicate the trade *origin* of seeds, plants and plant materials may be registered in class 31 subject to a condition that the words forming the trade mark not be used as a varietal name. Failure to observe that condition would render the trade mark registration invalid.

Names registered as trade marks or business names may be disqualified from PVR registration as variety names under subsections 17(2)(b) or 17(4) of the *Plant Variety Rights Act 1987*.

Trade marks can, of course, be used in association with PVR variety names to denote the origin or some other connection between groups of varieties. This is important considering the restrictions on eligibility of PVR names. A typical acceptable use of both would be to market a variety under its PVR registered name beside the trade mark registered breeder's or variety series name. For example, the PVR protected lucerne variety 'L69' may be sold as Pioneer 'L69', "Pioneer" being the trade mark.

Descriptions

As mentioned in the March 1992 issue of the Journal, the format for writing a description for publication has changed. There is now one heading, 'Description', which combines the information previously found in the 'Diagnosis' and 'Morphology'. Qualified persons should note this change when preparing descriptions for the journal. In future, descriptions will carry the name of the person who prepared them.

Accreditation for 'Qualified Persons'

This is the last issue in which the current Appendix 2, 'Organisations Offering to Undertake PVR Trials', will be published. In future issues, we will be publishing two lists:

- · a list of PVR accredited qualified persons;
- a list of agencies willing to conduct trials for PVR.

From the date of commencement of the new scheme all applications will have to be certified by a 'qualified person'. Thus agencies carrying out trials for applicants must either have a qualified person on their staff or contract an independent qualified person or arrange for the applicant to do so.

The PVR Office would like to remind all persons who wish to act as qualified persons for applicants, that they must apply for accreditation. The form this application should take was outlined in *Plant Varieties Journal* Vol. 5 No.1. Applications should be sent to the Registrar, PVR Office, DPJE, GPO Box 858, Canberra, ACT, 2601.

Part 2—Public Notices

The following varieties are included in this Journal

	Variety	page number
Alstroemeria	'Sangria'	10
Azalea	'Harlequin/Fiesta'	36
Banksia	'Waite Orange'	6
Barrel Medic	'Mogul'	35
Bean	'Jade'	36
Boronia	'Cameo' 'Moonglow'	6 6
Brachyscome	'Pink Haze' 'Blue Haze' 'Lemon Drops' 'Toucan Tango'	35 35 35 34
Canola	'Oscar' 'Narendra'	35 35
Cherry	'Empress'	8
Chickpea	'Barwon'	6
Cotton	'CS 50' 'CS 7S' 'Sicala 34' 'Siokra L23'	12 12 13 13
Cupressocyparis	'Peter Nitschke'	10
Grevillea	'Sunkissed Waters'	6
Hydrangea	'Kirsten'	36
Impatiens	'Sphinx'	25
-	'Isis'	25
	'Octavia' 'Melissa'	26 27
	'Tobago'	27
	'Tonga'	27
	'Papete'	28
	'Trinidad' 'Maui'	28 29
	'Samoa'	29
	'Lanai'	30
	'Barbados'	30
	'Marpesia' 'Bora Bora'	31
	'Fiji'	31 32
	'Tahiti'	32
	'Aruba'	33
-	'Antigua'	33
Lantana	'Monswee'	35
Lettuce	'Wintersalad' 'Magnum'	5 24
Lily	'Venezia'	5
Lillypilly	'Lillyput'	36
Lucerne	'Prime' 'L69'	5 36
Oat	'Nobby'	35
Pea	'Flinders'	36
Pumpkin	'Redlands Trailblaze	r' 6
Rose	'Delicious'	35
	'Flower Carpet'	9

	"Tequila Sunrise" "Savoy Hotel"	15 16
	'Tantau's Bernstein Rose'	16
Ryegrass	'Grasslands Pacific' 'Jackaroo'	35 23
Sanvitalia	'Pizzaro's Button'	35
Soybean	'Warrigal'	14
Stenanthium	'White Mischief'	35
Strawberry	'Chandler'	6
	'Fern'	6
	'Parker'	7
	'Santana'	7
	'Selva'	7
Syngonium	'Ultra'	35
Triticale	'Abacus'	36
Wattle	'Green Mist'	35
Waratah	'Sunburst'	5
	'Sunflare'	5
Waxflower	'Tickled Pink'	11

PVR Granted

Plant Variety Rights have been granted under Section 26 of the *Plant Variety Rights Act 1987*, and entry has been made in the Plant Varieties Register for the following varieties:

LETTUCE

Lactuca sativa

'Wintersalad' Application No. 90/001 Grantee: Arthur Yates & Co. Pty Ltd

Certificate No. 154

Expiry Date: 24 January 2010

LUCERNE

Medicago sativa

'Prime' Application No. 90/133 Grantee: **Bristar** Certificate No. 155

Expiry Date: 8 January 2011

WARATAH

Telopea speciosissima

'Sunburst' Application No. 90/062 Grantee: **The University of Sydney**

Certificate No. 156

Expiry Date: 15 June 2010

'Sunflare' Application No. 90/063 Grantee: **The University of Sydney**

Certificate No. 157 Expiry Date: 15 June 2010

LILIUM

Lilium hybrid

'Venezia' Application No. 89/065 Grantee: Gebr. Vletter en JA den Haan Certificate No. 158 Expiry Date: 11 August 2009

BORONIA

Boronia heterophylla

'Moonglow' Application No. 90/089 Grantee: Sunglow Flowers Pty Ltd

Certificate No. 159

Expiry Date: 29 August 2010

'Cameo' Application No. 90/094 Grantee: Sunglow Flowers Pty Ltd

Certificate No. 160

Expiry Date: 10 October 2010

CHICK PEA

Cicer arietinum

'Barwon' Application No. 90/048

Grantee: The New South Wales Minister for Agriculture and the Queensland Minister for

Primary IndustriesCertificate No. 161

Expiry Date: 24 April 2010

GREVILLEA

Grevillea laurifolia x willisii

'Sunkissed Waters' Application No. 91/023

Grantee: VF and NC Jupp

Certificate No. 162 Expiry Date: 29 April 2011

BANKSIA

Banksia hookeriana x prionotes

'Waite Orange' Application No. 91/020 Grantee: The University of Adelaide

Certificate No. 163

Expiry Date: 13 March 2011

PUMPKIN

Cucurbita maxima

'Redlands Trailblazer' Application No. 90/093 Grantee: The Queensland Minister for Primary

Industries for and on behalf of the Crown in right of

the State of Queensland Certificate No. 164

Expiry Date: 25 September 2010

Applications Accepted

The PVR applications listed below have been accepted under S18 of the *Plant Variety Rights Act 1987*.

(a) Descriptions Finalised

STRAWBERRY

Fragaria xananassa

Comparative Growing Trials

All characteristics described are from comparative growing trials conducted at Silvan, Victoria, during November, December 1991. Comparison varieties included were 'Pajaro' and 'Douglas', two recently released Californian varieties, plus 'Tioga' and 'Redgauntlet' two commonly known varieties. The plants used were Victorian Certified Strawberry Mother stock and planted in winter 1991.

The trial was conducted in a commercial fruit area on standard raised beds covered with black polythene mulch film. Six plants per plot in four randomised replications, planted at 400mm spacings in staggered double rows 180mm apart. Row beds at 1.5 metre centres. Plants were irrigated and prophylactic sprays applied for pest and fungal diseases as required.

Variety: 'Chandler' See fig. 1 in colour section

Application No: 89/066

Application received: 29 August 1989

Applicant: The Regents of the University of California,

Oakland, California.

Australian Agent: Peter Maxwell and Associates, of North

Parramatta, New South Wales

Description

'Chandler' is a very versatile and high yielding variety. Fruit is firm and glossy. Runner production in nursery plantings is excellent and better than 'Pajaro' or 'Douglas'.

'Chandler' leaves are about the same colour and intensity as those of 'Tioga', a lighter shade than both 'Pajaro' and 'Douglas'. Stipule anthocyanin colouration is weak. The calyx is small in size, borne on a distinct neck and reflexed. The achenes are below the surface of the fruit, whilst achenes on 'Pajaro' and 'Douglas' are level to above the surface. 'Chandler' petal length to width ratio is broader than long, whilst 'Douglas' is as long as broad.

Comparators

'Pajaro' and 'Douglas', the closest existing short-day varieties.

Origin

'Chandler' arises from a cross between 'Douglas' and 'C55 = 72–361–105'. The selection was made at Wolfskill Experimental Orchards, University of California, Davis, California, in 1977. The seedling was subsequently propagated asexually to form the variety 'Chandler'.

Variety: 'Fern' See fig. 2 in colour section

Application No: 89/067

Application received: 29 August 1989

Applicant: The Regents of the University of California.

Oakland, California.

Australian Agent: **Peter Maxwell and Associates**, of North Parramatta, New South Wales.

Description—see comparison tables.

'Fern' is a strong day-neutral type and it can be made to fruit at any time independent of day length approximately 90 days after planting. Runner production in nursery plantings is very good and all the runner plants flower within a relatively short time, whether rooted or not.

'Fern' plants are semi-erect in growth habit, more spreading than 'Selva' and leaf colour is lighter than 'Selva'. Stipule anthocyanin colour is weak whilst 'Redgauntlet' colouration is strong. Inflorescence position for 'Fern' is above the foliage whilst 'Selva' is level with the foliage. The petal length to width ratio in 'Fern' is as long as broad whilst in 'Selva' the ratio is broader than long. The insertion of the reflexed calyx is in a basin in 'Fern' and level in a clasping calyx in both 'Selva' and 'Redgauntlet'.

Comparators

'Selva' and 'Redgauntlet', the closest existing day-neutral varieties.

Origin

'Fern' is cross between 'Tufts' and a hybrid selection '69-62-103'. The selection was made at Wolfskill Experimental Orchards, Davis, California, in 1974. The seedling was subsequently propagated asexually to form the variety 'Fern'.

Variety: 'Parker' See fig. 3 in colour section

Application No. 89/072

Application received: 29 August 1989

Applicant: The Regents of the University of California,

Oakland, California.

Australian Agent: Peter Maxwell and Associates, of North

Parramatta, New South Wales.

Description—see also comparison tables

'Parker' is a tall upright strawberry variety with long petioles, very large and very firm fruit, and medium stipule anthocyania colouration.

Leaves of 'Parker' are similar in colour but slightly less intense than those of 'Tioga'. 'Parker' fruit is long conical to long flat wedged, whilst 'Tioga' fruit is kidney shaped and 'Pajaro' fruit is conical. Petal length to width ratio in 'Parker' is as long as broad whilst in 'Tioga' it is broader than long. In 'Parker' the inner calyx relative to the outer is smaller than in either 'Tioga' or 'Pajaro'.

Comparators

'Tioga' and 'Pajaro', the closest existing short day varieties.

Origin

'Parker' arises from a controlled pollination cross between 'Douglas' and 'Cal 71.98–605', a hybrid of 'Tufts'. The selection was made at the South Coast Field Station, Santa Ana, California, in 1977. The seedling has been subsequently propagated asexually to form the variety 'Parker'.

Variety: 'Santana' See fig. 4 in colour section

Application No: 89/073

Application received: 29 August 1989

Applicant: The Regents of the University of California,

Oakland, California.

Australian Agent: Peter Maxwell and Associates, of North

Parramatta, New South Wales.

Description—see comparison tables.

'Santana' is a short-day variety. Plants are erect in growth habit and about the same as 'Tioga' but less erect than 'Douglas'.

'Santana' fruit is medium to short conical, symmetrical, and very early fruiting variety.

'Santana' leaf colour is more intense than 'Tioga' and similar to 'Douglas'. The fruit band without achenes is very narrow to absent, when compared with 'Douglas' and 'Tioga'. The calyx on the fruit is set in a basin whilst the calyx on 'Douglas' is set above the fruit. The terminal leaflet shape at the base is obtuse whilst that of 'Douglas' is acute. Stolon anthocyanin colouration is strong when compared with both 'Douglas' and 'Tioga'.

Comparators

'Douglas' and 'Tioga', the closest existing short-day varieties.

Origin

'Santana' is a reciprocal sister of 'Douglas' and from a hybrid cross of 'Toro' (72–309–501 and 72–359–601). The variety was selected at the South Coast Field Station, Santa Ana, California, in 1977. The seedling was subsequently propagated asexually to form the variety, 'Santana'.

Variety: 'Selva' See fig. 5 in colour section

Application No: 89/074

Application received: 29 August 1989

Applicant: The Regents of the University of California,

Oakland, California.

Australian Agent: Peter Maxwell and Associates, of North

Parramatta, New South Wales.

Description—see comparison tables.

'Selva' is a relatively weak day-neutral type and behaves differently to other remontant types such as 'Fern'. Only the mother and part of the first daughter plants tend to flower. 'Selva' is also very flexible with regard to planting time and system. The fruit of 'Selva' is exceptionally firm. 'Selva', commences fruiting about 3 months after planting, regardless of planting time.

'Selva' plants are semi-erect in growth habit but have a lower height to width ratio than 'Fern' or 'Redgauntlet'. 'Selva' leaves are the same intensity as those of 'Tioga', but darker than 'Fern' or 'Redgauntlet'. 'Selva' fruit is medium to long conical and skin colour is darker than 'Fern' or 'Redgauntlet'. 'Selva' stolon anthocyanin colouration is weak, whilst 'Fern' has medium colouration. The size of the 'Selva' calyx relative to the corolla is the same size whilst in 'Fern' the calyx is smaller relative to the corolla. 'Selva' is a fully remontant selection whilst 'Redgauntlet' is only part remontant.

Comparators

'Fern' and 'Redgauntlet', the closest existing day-neutral varieties.

Origin

'Sclva', is a cross between a day-neutral sister of 'Brighton' (70–3–117) and a hybrid (71–90–605) cross between 'Tufts' and one of the parents of 'Pajaro' (63–7–1–1). The selection was made at Wolfskill Experimental Orchards, Davis, California, in 1977. The seedling was subsequently propagated asexually to form the variety 'Selva'.

Descriptions prepared by Graham Barthold, of Institute of Plant Sciences, Knoxfield.

(* = comparators									
	'Chandler'	'Douglas'	'Fern'	*'Pajaro'	'Parker'	*'Red- gauntlet'	'Santana'	'Selva'	*'Tioga'
HEIGHT TO WIL	OTH RATIO								
теап	0.534	0.612	0.519	0.612	0.701	0.670	0.574	0.484	0.456
range	037-0.80	0.44-0.92	0.40-0.82	0.43-0.96	0.54-1.0	0.48-0.79	0.35-0.80	0.38-0.63	0.30-0.63
std. dev	0.106	0.120	0.097	0.117	0.115	0.096	0.091	0.059	0.078
TERMINAL LEA	F LENGTH								
mean	100.5 mm	104.0 mm	97.87 mm	102.2 mm	105.5 mm	109.6 mm	100.2mm	90.66 mm	105.9 mm
range	75-125	80-135	80-115	85-115	85-130	95-125	80-120	70-105	75-135
std. dev	12.04	12.18	10.97	6.78	12.57	7.66	12.16	8.84	14.5
TERMINAL LEA	F WIDTH	****							
mean	102.7 mm	94.7 mm	91.2 mm	98.1 mm	97.7 mm	90.6 mm	98.6 mm	86.8 mm	107.0 mm
range	70-125	65-125	70-115	80-115	70-130	68-117	75-120	68-105	80-140
std. dev	12.6	13.3	11.9	7.9	14.5	9.5	13.1	10.2	14.1
FRUIT LENGTH								-	
mean	41.6 mm	42.7 mm	39.3 mm	40.5 mm	45.3 mm	36.1 mm	36.5 mm	43.0 mm	25.7 mm
range	30-53	23-58	30-49	29-48	27-70	28-46	17-50	30-59	15-42
std. dev	5.9	8.5	5.7	4.2	10.4	4.2	8.1	6.7	5.1
FRUIT WIDTH									
mean	28.6 mm	28.8 mm	26.1 mm	30.2 mm	26.3 mm	33.9 mm	33.6 mm	27.3 mm	26.7 mm
range	22-36	17-39	19-33	17-37	12-38	26-44	20-45	14-37	18-44
std. dev	3.0	6.2	4.1	4.2	6.2	4.5	6.7	4.5	5.1
STIPULE ANTHO	OCYANIN COLOU	JRATION				,,			
	weak	absent	weak	strong	medium	strong	weak	weak	weak
INSERTION OF	CALYX								
	above fruit	above fruit	in a basin	level	level	level	level	level	in a basin
POSE OF CALY	X SEGMENTS	* .							
TOOL OF CALL	reflexed	reflexed	reflexed	clasping	clasping	clasping	reflexed	clasping	clasping
DAND WITHOUT	T A CHENEC								
BAND WITHOU	medium	medium	medium	narrow	medium	absent	absent	medium	narrow
					medium	absent	absent	mediam	
FRUIT PREDOM									
	conical	wedged	wedged	conical	conical	cordate	conical	long conical	kidney
TYPE OF BEAR	ING								
	non-	non-	fully	non-	non-	part	non-	fully	non-
	remontant	remontant	remontant	remontant	remontant	remontant	remontant	remontant	remontant

CHERRY

Prunus avium

Variety: 'Empress' See fig. 6 in colour section

Application No: 90/083

Application received: 14 August 1990

Applicant: DR & PP Simpson, of Young, New South Wales

Description—see comparison tables

'Empress' is an early maturing sweet cherry. It is distinct from other cherries in its combination of maturity time, fruit size, skin colour and flesh colour. The fruit is large for an early season variety, round and has dark skin and a medium pedicel length. The texture is firm and fruit has shown good post harvest qualities.

Origin

'Empress' was a chance seedling from DR & PP Simpson's orchard in Young NSW.

Comparators

'Burgsdorf', the maturity indicator, 'Henderson', an early

maturing variety similar in shape to 'Empress', and 'Moss Early', an early variety widely grown in Victoria.

Comparative growing trials

Characteristics and comparisons come from a NSW Agriculture comparative growing trial on Mr John Richen's property "Torry Hill" in Young. The trial block was established in 1981 and includes 92 cherry varieties and selections. It was established to compare and evaluate early, mid and late season varieties from all cherry-producing regions of the world. The trial block includes three specimens of each variety, the majority on non virus-indexed mahaleb rootstocks. Evaluation of 'Empress' included observation and measurement of the mother tree.

Agronomy

'Empress' is an early maturing variety ripening at approximately the same time as 'Burgsdorf', the main early commercial cultivar in Young.

Description prepared by Peter Kennedy of NSW Agriculture, Young and PVRO.

Table of Comparison of Cherry Varieties (* = comparator) 'Empress' *'Burgsdorf' *'Henderson' *'Moss Early' MATURITY TIME similar to 'Burgsdorf' Reference + 10 days 'Burgsdorf' + 15 days 'Burgsdorf' FRUIT SHAPE Round Round Round Heart FRUIT DIAMETER 23.0 mm mean 20.0 mm 22.5 mm 22.0 mm range 22.0-23.5 18.0-21.0 21.0-24.0 21.0-23.5 std. deviation 0.40 0.25 0.50 0.65 PEDICEL LENGTH mean 2.8 cm 4.5 cm 4.5 cm 3.25 cm range 2.0 - 3.64.0 - 5.04.0-5.0 2.5-4.0 std. deviation 0.60 0.25 0.50 0.25

ROSE

Rosa

Variety: 'Flower Carpet' commercial synonym 'Noatraum'.

See also fig. 7 in colour section. Application No. 90/091

Application Received: 29 August 1991

Applicant: Pan-Am Northwest Inc, of British Columbia,

Canada

Australian Agent: Tesselaar Nominees, of Silvan, Victoria

Description-see also comparison tables

'Flower Carpet' is a groundcover rose with low spreading habit; medium sized terminal leaflets glossy on the upper side and medium green in colour; thorns on the stems; flowers formed in clusters; flowers flattened convex in both upper and lower profile; medium sized petals corresponding to RHS 67B when newly opened but fading to RHS 67D as they age; fruits small rounded and tinged with orange. 'Bonica' differs from 'Flower Carpet' in being much taller and more upright with smaller thorns flat on the upper side and concave on the lower side, larger flowers with more petals paler in colour corresponding to RHS 65A on the inside and RHS 65D on the outside, a larger basal spot and larger fruits.

Origin

'Flower Carpet' arose from the controlled pollination of 'Immensee' by 'Amanda'. Selection was based on growth habit, flower colour and disease resistance. Subsequent plants have been propagated asexually by cuttings. Rights have been applied for in USA, Germany and Holland. 'Flower Carpet' was first sold in Holland in 1989.

Comparators

Rosa 'Bonica', a well known pink shrub rose.

Comparative Growing Trials

All characteristics and comparisons are from comparative growing trials conducted at Silvan, Victoria. Five plants each of 'Flower Carpet' and 'Bonica' were propagated by cuttings and planted side by side in February 1991 in red krasnozem soil in open ground on the property of Tessalaar Nominees in Silvan, Victoria. All leaf and stem measurements and flower

colour assessment were made in March 1992 but flower measurements were made as blooms developed from December 1991.

Description prepared by David Nichols.

Table of Comparison of Rose Varieties

(* = comparator)

(* = comparator)			
	'Flower Carpet'	*'Bonica'	
FLOWER COLOUR GE	ROUP		_
	pink	pink	
PETAL COLOUR MIDZ	ONE—RHS No.		_
inside	67B	65A	
outside	67B	65D	
PETAL COLOUR MAR	GIN—RHS No.		
inside	67B	65A	
outside	67B	65D	
PETAL SPOT COLOUR	₹		
	155C	155C	
FLOWER DIAMETER			
mean	52.96 mm	57.43 mm	
range	46–60	52-65	
std. deviation	4.4	3.98	
PETAL NUMBER			
mean	18.78	31.82	
range	16-23	27-36	
std. deviation	1.91	2.81	
PETAL LENGTH			_
mean	26.47 mm	30.89 mm	
range	24-30	28-35	
std. deviation	2.04	1.79	
PETAL WIDTH			
mean	24.95 mm	27.95 mm	
ange	22-28	25–31	
std. deviation	2.09	1.68	
TERMINAL LEAFLET L			
mean	36.15 mm	41.7 mm	
range	30–42	37-47	
std. deviation	2.8	3.08	

TABLE OF COMPARISON OF ROSE VARIETIES—Continued

	'Flower Carpet'	*'Bonica'			
TERMINAL LEAFLET WIDTH					
mean	25.5 mm	24 mm			
range	19-30	19–27			
std. deviation	2.74	2.43			
PETIOLULE LENGT	H				
mean	14.5 mm	11.75 mm			
range	918	7–15			
std. deviation	2.95	2.1			
THORN LENGTH					
mean	7.8 mm	5.65 mm			
range	4-10	4-7			
std. deviation	1.2	0.93			
SEPAL LENGTH					
mean	16.95 mm	16.9 mm			
range	14-22	14-21			
std. deviation	1.96	1.59			

ALSTROEMERIA

Alstroemeria

Variety: 'Sangria' See fig. 8 in colour section.

Application No. 91/063

Application Received: 1 July 1991

Applicant: Konst Alstroemeria BV, of Nieuwveen, Holland Australian Agent: Maxiflora Pty. Ltd., of Monbulk, Victoria

Description—see also comparison tables

'Sangria' is a tall *Alstroemeria* with thick stems with no anthocyanin colouration. The leaves are recurved, mid green in colour, long, broad and glabrous on both sides. The main flower colour is orange–red. The inflorescences have a medium number of medium length umbel branches and medium length pedicels.

The outer tepals are orange-red at the margins and red-purple at the apex, obovate in shape and bear no stripes. The inner tepals are yellow at the base and orange-red at the apex and are elliptic in shape with many stripes. The median inner tepal is similar to the lateral inner tepals. The ovaries lack anthocyanin, the filaments and style are pink in colour and the anthers purplish.

'Carmen' differs from 'Sangria' in having narrower stems, red colouration in the tepals, narrower stripes on the inner tepals, very few stripes, no yellow colouring on the inner median tepal and anthocyanin present in the ovaries. 'Tiara' differs from 'Sangria' in having narrower stems, longer umbel branches, red colouration in the tepals, thicker stripes on the inner tepals, only occasional touches of yellow on the inner median tepal, anthocyanin in the ovaries and orange—red filaments and style.

Origin

This variety arose from the controlled pollination of 'Aurantiaca' by 'Butterfly'. It was bred by Konst Alstroemeria BV of Nieuwveen, Holland. 'Sangria' was selected for development on the basis of flower colours and the length of the flowering season and propagated asexually through numerous generations. 'Sangria' has been protected by Plant Variety Rights in Holland since 1986. 'Sangria' has been sold in Holland since 1988.

Comparators

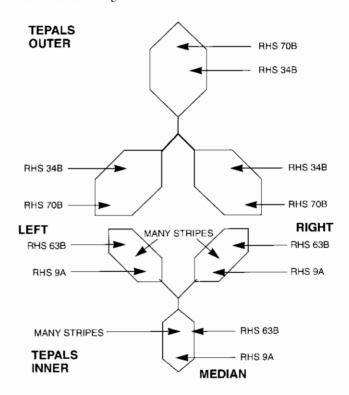
'Carmen' and 'Tiara' being the closest known varieties and having similar flower colours.

Comparative Growing Trials

All characteristics described below are from comparative growing trials conducted at Monbulk, Victoria in 1991. The plants were grown from rhizomes planted in red kraznozem soil in multispan polythene greenhouses. All characteristics described are from stems cut in bud, placed in a solution of 5% sugar and 1 ml/litre chlorine bleach and transported to Devon Meadows, Victoria, in October 1991, where the flowers were allowed to open. Measurements are from 20 specimens.

Tepal characteristics are set out in diagram form.

Alstroemeria 'Sangria'



Note: Five days after picking in bud

Green tips on outer tepals

Apical tip of inner tepals fade to RHS 34B at margins.

Description prepared by David Nichols.

CUPRESSOCYPARIS

X Cupressocyparis

Variety: 'Peter Nitschke' See fig. 9 in colour section

Application No. 91/094

Application Received: 16 September 1991

Applicants: **Jeff Koelewyn**, of The Patch, Victoria and the **Estate of Peter Nitschke**, of Mylor, South Australia.

Description-see also comparison tables

'Peter Nitschke' is a coniferous tree, ovoid in shape and having in the first year of growth the following characteristics: medium growth rate; erect, soft and dense first order branchlets with short internodal spaces, sometimes planar arrangement of spray, concave towards the stem with branchlets occasionally opposite though commonly alternate; penultimate branchlets are short; the margins of the branchlets are coloured yellow in spring corresponding at the extreme tips to RHS 9A or 13A and yellow green in autumn corresponding to RHS 150B; the midzones of the branchlets are green corresponding to 137B in spring and autumn.

'Castlewellan Gold' differs from 'Peter Nitschke' in having a conical growth habit, faster growth rate, longer and wider branches, longer branchlets, longer internode lengths, a generally planar growth habit in the first year, invariably alternate branchlets, bronze colouring along the first third of the branchlet stems, branchlet margins coloured yellow green corresponding to RHS 154A at the very tips in autumn, and branchlet midzones corresponding to RHS 137C.

Origin

'Peter Nitschke' was selected by the late Peter Nitschke and Jeff Koelewyn from a population of 'Castlewellan Gold' seedlings. Selection was based on the shape, colour and form of foliage. Scions from the original selection were veneer grafted onto 'Castlewellan Gold' rootstock. The clone was then propagated asexually.

Comparators

'Castlewellan Gold', the presumed mother plant.

Comparative growing trial

All characteristics and comparisons are from comparative growing trials conducted under ambient outdoor growing conditions at The Patch, Victoria. The plants of 'Peter Nitschke' and 'Castlewellan Gold' were originally propagated by cuttings and grown in 50 mm tubes in a polythene covered house. In September 1991 ten plants of each variety were transplanted into 200 mm pots in a standard bark-based potting mixture. The plants were arranged in paired replicates and grown outdoors. In February 1992 they were transplanted again into 325 mm pots in a standard potting mixture. Growth measurements were made in April 1992. Leaf colours on 'Peter Nitschke' were assessed in September, 1991 and April 1992 and on 'Castlewellan Gold' in April 1992.

Description prepared by David Nichols.

Table of Comparison of Cupressocyparis Varieties

	'Peter Nitschke'	*'Castlewellan Gold'
PLANT HEIGHT		•
mean	55.2 cm	70.6 cm
range	50 to 59	65 to 76
std.deviation	3.39	3.41
PLANT WIDTH		
mean	32.8 cm	47.2 cm
range	30-37	38-59
std. deviation	2.39	5.75
PLANT BRANCH D	ENSITY (1-9, 1= least)	
	7	5

2.84 cm

0.25

2.28-3.09

PLANT BRANCH STIFFNESS (1-9, 1= least)

1.92 cm

1.55-2.52

INTERNODE LENGTH

mean

range

std.deviation

TABLE OF COMPARISON OF CUPRESSOCYPARIS VARIETIES—Continued

	'Peter Nitschke'	*'Castlewellan Gold'
NUMBER OF FIRS	ST ORDER BRANCHLE	TS
mean	29.2	25.0
range	23-32	23-29
std.deviation	3.9	2.05
ARRANGEMENT (OF SPRAY	
	semi-planar	planar
LENGTH OF PEN	ULTIMATE ORDER BRA	ANCHLET
mean	1 4.15 cm	22.35 cm
range	12-17	15-28
std.deviation	1.57	5.91
BUTT DIAMETER		
mean	9.3 mm	11.9 mm
range	8-10	11-13
std.deviation	0.82	0.74
BRANCHLET MAR	RGINAL COLOUR (sprin	ng)
RHS	9A or 13A	No data
BRANCHLET MAR	RGINAL COLOUR (autu	mn)
RHS	150B	154A
BRANCHLET MID	ZONE COLOUR (spring	<u></u>
RHS	137B	No data
BRANCHLET MID	ZONE COLOUR (autum	nn)
RHS	137B	137C

WAXFLOWER

Chamelaucium sp. nov.("floriferum") x uncinatum

Variety: 'Tickled Pink'. See fig. 10 in colour section. Application No. 91/105

Application Received: 22 October 1991

Applicant: George Lullfitz, of Wanneroo, Western Australia

Description—see also comparison tables

'Tickled Pink' is a small flowered, late maturing small branch angled waxflower. Flowers are two-coloured with striped, pale pink-red petals; flowering August to late October. 'Tickled Pink' has a staminodial collar which is purple when mature. The floral tube of 'Tickled Pink' is green medially and reddened distally. The leaves of 'Tickled Pink' are thicker and longer than those of 'Lady Stephanie'.

Comparators

'Lady Stephanie', being the closest in flower colour, flower size and flowering habit.

Comparative Growing Trials

All characteristics described below are from comparative growing trials conducted at Wanneroo, W.A. in 1991. Ten plants of each variety were grown from cuttings in sawdust/sand composite potting mix in 175 ml pots spaced 10 cm apart outdoors under overhead irrigation. The growing medium was a mix of four parts jarrah sawdust, one part medium grade pine bark, two parts washed white sand and one part red loam. This medium was enriched with a fertiliser mix made up of Macrocote grey 8–9 month slow release fertiliser, Meister 10 slow release Nitrogen, Micromax trace elements and dolomite lime.

Origin

This variety arose as a sport of *Chamelaucium* sp. nov. ("floriferum") x *uncinatum*. It was selected by George Lullfitz. 'Tickled Pink' was selected for development on the basis of flower colours and propagated from cuttings through two generations.

Description prepared by Ian Renshaw and PVRO.

Table of Comparison of Waxflower Varieties				
(* = comparator)				
	'Tickled Pink'	*'Lady Stephanie'		
PETAL COLOURS				
	two	one		
PETAL COLOUR PAT	TERN			
	stripes	solid		
PETAL COLOUR—MA	A TURE			
	pink and red	pink		
RHS No.	75B and 57C	80D		
NECTARY COLOUR-	-MATURE			
	crimson	crimson		
RHS No.	59B	59C		
FLOWER DIAMETER				
mean	14.1 mm	13.5 mm		
range	13-15	1215		
standard deviation	0.47	0.89		

COTTON

Gossypium hirsutum

Comparative Growing Trials

The morphological characteristics described here are from comparative growing trials at Narrabri Agricultural Research Station, Myall Vale, in the 1991/92 growing season. Performance data presented in the accompanying table are from trials conducted at Myall Vale, Moree, Boggabilla, Biloela, Emerald, Warren, Bourke, Theodore, St George, Cecil Plains, Merah North, Collarenebri and Breeza in 1990/91. Trials were all incomplete block row and column designs with four or five replications. Three row plots 13 to 15 m long by 3 m wide were used in all trials and measurements were only made on the middle row. Plant density varied around 12 plants/metre.

Comparators

'Siokra 1-4' and 'Deltapine-Acala 90' (DP90) being commonly grown standard commercial varieties.

Variety: 'CS 50' See fig. 11 in colour section

Application No. 91/113

Application Received: 27 November 1991

Applicant: CSIRO Division of Plant Industry, Cotton

Research Unit, Narrabri, NSW.

Description—see also comparison tables

Compared with 'DP90', 'CS 50' is resistant to bacterial blight (*Xanthomonas campestris pv malvacearum*), has finer and more mature fibre, lower seed oil content, higher lint percentage and has shorter pedicels, bracts and fruiting branches. Compared with 'Siokra 1–4', 'CS 50' has normal leaf shape.

Origin

The breeder is Dr NJ Thomson of the CSIRO Cotton Research Unit, Narrabri. 'CS 50' was developed from two cycles of single plant selection and subsequent progeny testing on a single and multiple-site basis starting with a 'Siokra 1–1' x 'DP90' F2 breeding population. Throughout both cycles selection was directed to seedling vigour, normal leaf, Delta-type smoothness of leaf and stem, erect vigorous plant growth, medium to strong and well-fluffed boll opening and resistance to disease, especially bacterial blight (plants being artificially inoculated with race 18 of the bacterial blight inoculum once or more each season). Major emphasis was directed towards performance including high lint percentage, yield and long, strong and fine fibre using the multi-site measurements made in comparative trials spanning the cotton belt of eastern Australia.

Agronomy

CS 50 is adapted to all irrigated cotton growing areas of New South Wales and Queensland except those where Verticillium wilt is prevalent.

Variety: 'CS 7S' See fig. 11 in colour section

Application No. 91/114

Application Received: 27 November 1991

Applicant: CSIRO Division of Plant Industry, Cotton

Research Unit, Narrabri, NSW.

Description—see also comparison tables

Compared with 'DP90', 'CS 7S' is resistant to bacterial blight, has shorter fibre, a greater fibre length uniformity, a high maturity ratio and micronaire, is shorter statured, having a lower node of first fruit, shorter fruiting branches, smaller bract teeth length to bract width ratio besides shorter pedicels. Compared with 'Siokra 1–4', 'CS 7S' has normal leaf shape.

Origin

The breeder is Mr PE Reid of the CSIRO Cotton Research Unit, Narrabri. 'CS 7S' was developed from an F2 breeding population of '75007–3' (a breeding line developed from a 'Riverina Poplar' x 'Tamcot SP23' population) x 'DP90' using two cycles of single plant selection and subsequent progeny testing on a single and multiple-site basis. Throughout both cycles, selection was directed to seedling vigour, Delta-type smoothness of leaf and stem, medium to strong and well-fluffed boll opening, early maturity and resistance to disease, especially bacterial blight. Strong emphasis was also placed on tolerance to verticillium wilt (*Verticillium dahliae*) and on performance including high lint percentage, yield in short growing season areas, and strong and high micronaire fibre using the multi-site measurements made in comparative trials spanning the cotton belt of eastern Australia.

Agronomy

'CS 7S' with its early maturity and tolerance to *Verticillium* wilt is adapted to irrigated cotton farming in all the cooler cotton growing areas of New South Wales and Queensland.



Variety: 'Sicala 34' See figs 11, 12 in colour section

Application No. 91/115

Application Received: 27 November 1991

Applicant: CSIRO Division of Plant Industry, Cotton

Research Unit, Narrabri, NSW.

Description—see also comparison tables

Compared with 'DP90', 'Sicala 34' is resistant to bacterial blight, has longer, stronger, finer and more mature fibre and has shorter and narrower bracts, with a greater bract teeth length to bract width ratio. Compared with 'Siokra 1–4', 'Sicala 34' has normal leaf shape.

Origin

The breeder is Dr NJ Thomson of the CSIRO Cotton Research Unit, Narrabri. 'Sicala 34' was developed from 'Siokra 1–1' x 'DP90' F2 breeding population. Selection was directed to seedling vigour, Delta-type smoothness of leaf and stem, medium to strong and well-fluffed boll opening and resistance to disease, especially bacterial blight. Strong emphasis was also placed on performance including high lint percentage, yield, and long, strong and fine fibre using the multi-site measurements made in comparative trials spanning the cotton belt of eastern Australia.

Agronomy

'Sicala 34' is adapted to all irrigated cotton growing areas of New South Wales and Queensland except those where *Verticillium* wilt is prevalent.



Variety: **'Siokra L23'** See figs 11, 12 in colour section Application No. 91/116

Application Received: 27 November 1991

Applicant: CSIRO Division of Plant Industry, Cotton

Research Unit, Narrabri, NSW.

Description—see also comparison tables

Compared with 'Siokra 1-4', 'Siokra L23' has coarser and stronger fibre, is taller and has wider bracts as well as a smaller bract teeth length to bract width ratio. Compared with 'DP90', 'Siokra L23' has okra leaf shape and is resistant to bacterial blight.

Origin

The breeder is Dr NJ Thomson of the CSIRO Cotton Research Unit, Narrabri. 'Siokra L23' was developed from two cycles of single plant selection and subsequent progeny testing on a single and multiple-site basis starting with a 'Siokra 1–1' x 'DP90' F2 breeding population. Throughout both cycles selection was directed to seedling vigour, the okra-leaf trait, Deltatype smoothness of leaf and stem, erect vigorous plant growth, medium to strong and well-fluffed boll opening and resistance to disease, especially bacterial blight. Strong emphasis was also placed on performance including high lint percentage, yield, uniform length and strong fibre using the multi-site measurements made in comparative trials spanning the cotton belt of eastern Australia.

Agronomy

'Siokra L23' is adapted to both dryland and irrigated cotton farming in all the warmer cotton growing areas of New South Wales and Queensland. The okra leaf provides some resistance to *Heliothis* and spider mites (Thomson, NJ 1987. Host plant resistance in cotton. J.Aust.Inst.Agric. Sci. **53**: 262–270. Wilson, LJ and Fitt, GP 1987. Varietal resistance to spider mites. Aust.Cotton Grower **8**(3): 8–10.)

Descriptions prepared by GA Constable, PE Reid and NJ Thomson of the CSIRO Cotton Research Unit, Narrabri.

Table of Comparison of Cotton Varieties

(*= comparators)

Morphological data is from measurements on 20 plants per variety in the 1991/92 season, seed and fibre quality data is from 1990/91 Australian Cotton Cultivar Trials at 13 sites. Values in bold highlight those measures where the new variety is significantly (P<0.05) different to the comparison variety (Siokra 1-4 for Siokra L23; DP90 for Sicala 34, CS 50 and CS 7S). Abbreviations: sd=standard error of difference between means; ***= significant at P<0.001; **= significant at P<0.001.

Morphology of cotton is affected by location on the plant, plant density and pest attack. The bract and pedicel measurements were taken from full-size boils on the first position on the third fruiting branch of undamaged plants grown at a density of 8 plants/m2.

•	•	-			,		
	'Siokra L23'	'CS 7S'	'Sicala 34'	'CS 50'	*'DP 90'	*Siokra 1-4'	Sd.
PLANT HEIGHT					.,		
	89.6 cm	75.8 cm	79.2 cm	81.2 cm	84.5 cm	78.5 cm	3.1***
NODE OF FIRST FRUIT	BRANCH	•					
	7.4	6.3	7.2	7.0	7.3	7.9	0.26***
FRUIT BRANCH NODE	1 (mm)						
	107	8 9	90	96	108	117	9.5***
FRUIT BRANCH NODE 2	2 (mm)						
	85	58	82	77	101	78	10.3**
PEDICEL LENGTH (mm)	<u> </u>						
, ,	29	21	28	24	31	25	2.2***
BRACT LENGTH (mm)							
, , , , ,	52	46	42	41	46	49	2.1***

TABLE OF COMPARISON OF COTTON VARIETIES—Continued

	'Siokra L23'	'CS 7S'	'Sicala 34'	'CS 50'	*'DP 90'	*Siokra 1-4'	Sđ.
BRACT WIDTH (mm)							
	32	31	24	26	28	27	1.7***
BRACT TEETH LENGT	H (mm)						
	29	21	23	21	23	28	1.5***
TEETH LENGTH/BRAC	T WIDTH				-	_	
	0.91	0.69	0.96	0.80	0.84	1.07	0.056***
SEED OIL (%)							
	27.4	27.5	26.0	24.8	26.2	27.1	0.11***
LINT (%)							
	40.8	38.6	39.3	41.7	38.5	40.5	0.23***
FIBRE QUALITY CHAR/ LENGTH (inch)	ACTERISTICS						
, ,	1.19	1.11	1.21	1.18	1.16	1.20	0.005***
UNIFORMITY RATIO							
	46.9	49.7	46.9	46.8	47.5	46.3	0.25***
STRENGTH (g/tex)							
	28.0	27.3	29.4	27.3	27.5	26.3	0.22***
FINENESS (millitex)			<u> </u>		<u> </u>	· -	
	176	179	162	165	179	161	1.5***
MATURITY RATIO							
	0.86	0.94	0.96	0.92	0.85	0.88	0.004***
MICRONAIRE VALUE							
	4.1	4.4	4.1	4.1	4.1	3.9	0.05***

SOYBEAN

Glycine max

Variety: 'Warrigal' See fig. 13 in colour section

Application No. 92/025

Application Received: 27 March 1992

Applicant: Queensland Department of Primary Industries

Description—see also comparison tables

This variety has white flowers, grey pubescence, determinate growth habit, green hypocotyl and tan pods. It is distinct from known varieties, having spherical seed with a yellow coat, dull lustre and colourless hilum. It has immunity to races 1 and 15 and field resistance to race 4 of *Phytophthora* root and stem rot.

'Warrigal' differs from 'Manark' in having a dull lustred seed coat, colourless hila and immunity race to 15 of *Phytophthora* root rot. 'Manark' has a shiny seed coat, buff hila and is susceptible to race 15. 'Warrigal' differs from 'Davis' in having seeds with a colourless hila and immunity to race 15 of *Phytophthora* root rot. 'Davis' has buff hila and is highly susceptible to race 15.

Origin

The breeder is JL Rose of Department of Primary Industries, Queensland. 'Warrigal' was derived from the cross 'Davis' x 'Nessen' made in 1982. It is the progeny of a single F5 plant developed using a modified pedigree selection method. Field testing for yield, maturity, lodging, disease resistance and seed

quality commenced in 1986. Laboratory testing for *Phytophthora* root rot and bacterial pustule was carried out by MJ Ryley, Department of Primary Industries, Toowoomba, Queensland.

Comparators

'Manark' and 'Davis' are other varieties with similar maturity, plant colours and disease resistance.

Comparative Growing Trials

All characteristics and comparisons are from a comparative growing trial planted at Hermitage Research Station near Warwick, Queensland on 17 December 1990. Plots consisted of 5 metre rows 70cm apart, planted at a density of 20 seeds per metre with 2 replicates per variety. Measurements in the table are of 20 plants chosen at random.

Resistance to *Phytophthora* root rot was determined by inoculating hypocotyls to determine immunity and roots to determine field resistance, and using reference fungal isolates held at Department of Primary Industries Pathology Laboratory, Toowoomba, Queensland. Procedures are as outlined by Irwin and Langdon in Aust.J.Agric.Res., 1982, 33 pp 33–39.

Agronomy

'Warrigal' is immune to races 1 and 15 and field resistant to race 4 of *Phytophthora* root rot. It is also immune to bacterial pustule and is adapted to the sub-tropical soybean growing districts of Australia.

Description prepared by Dr J Rose, Hermitage Research Station, QDPI.

Table of Comparison of Soybean Varieties (* = comparator) *'Davis' *'Manark' 'Warrigal' DAYS TO FLOWERING 52.6 58.0 56.2 mean 55-61 49-56 51 - 60range std. deviation 2.7 2.2 1.9 MATURE PLANT HEIGHT 89 cm 92 cm 81 cm mean 77-108 70-90 82-98 range std. deviation 4.8 4.9 68 HYPOCOTYL COLOUR green areen green FLOWER COLOUR white white white PUBESCENCE COLOUR grey grey arev POD COLOUR tan tan SEED COAT LUSTRE dull dull shiny HILUM COLOUR colourless buff buff PHTYOPHTHORA ROOT ROT race 1 immune field resistant field resistant race 4 field resistant field resistant field resistant susceptible race 15 immune highly susceptible 100 SEED WEIGHT 18.9g 17.9g 16.8a OIL CONTENT 19.8% 19.5% 20.6%

ROSE

PROTEIN CONTENT

Rosa

Comparative Growing Trials

39.9%

All characteristics described below are from comparative growing trial conducted at Narre Warren North, Victoria. Seven plants of each variety were planted in sandy loam.rows 3 metres apart and spaced at 50 cm within the rows. All plants had identical management and chemical treatments.

39.5%

38.9%

Variety: 'Tequila Sunrise' commercial synonym 'Dicobey'.

See fig. 14 in colour section. Application No. 92/026

Application Received: 30 March 1992

Applicant: Colin Dickson of Dickson Nurseries. Newtownards, County Down, Northern Ireland.

Australian Agent: S Brundrett and Sons Roses Pty Ltd, of

Narre Warren North, Victoria

Description—see also comparison tables

This variety is a medium sized bush rose suitable for bedding. It has medium size leaves which are a glossy green; anthocyanin in the young shoots and an obtuse leaf base. The stems are thorny as are the flower pedicels which are slightly prickly.

The flowers are produced from rounded buds and are a yellow blend colour matching the RHS 6C (outside) to RHS 9A (inside) in midzone of the petal. Petal basal spots are indistinct on both surfaces of the petal.

The petal margins have a distinct red flushing matching RHS 46A on the outside margin and RHS 41A on the inside margin of the petal. The medium sized flat flowers are produced in a cluster habit and develop mid to late in the season. The slightly fragrant flowers are composed of more than 50 medium sized non reflexed, undulating petals, and a yellow stamen above a yellow/green style. The seed vessel is of a funnel shape with medium sepal extensions.

Origin

This variety arose from controlled pollination of 'Bonfire' by 'Freedom'. It was bred by Colin Dickson, of Dickson Nurseries, Newtownards, Northern Ireland. 'Tequila Sunrise' has been protected by Plant Variety Rights in United Kingdom since 1988. 'Tequila Sunrise' has been sold in United Kingdom since 1989.

Comparators

'Model of Perfection' and 'Mister Chips', roses of the same flower colour group as 'Tequila Sunrise'.

Description prepared by D.McDonald, Agrisearch Services Pty Ltd

Table of Comparison of Rose Varieties						
(* = comparator)						
	'Tequila Sunrise'	*'Model of Perfection'	*'Mister Chips'			
PETAL COLOUR						
midzone outside	RHS 6C	RHS 13B	RHS 7D			
midzone inside	RHS 9A	RHS 13A	RHS 6D-C			
margin outside	RHS 46A	RHS 45D	RHS 55C			
margin inside	RHS 41A	RHS 34A	RHS 55D			
FLOWER SIZE (fully	open - stamen	s visible)				
mean	70.1 mm	62.3 mm	76.4 mm			
range	60-74	56-73	74-85			
std. deviation	2.73	3.7	2.7			
FLOWERING TIME						
	medium-late	late	early			
FLOWER PROFILE						
upper	flat convex	flat convex	flat convex			
lower	flat convex	convex	convex			
PETAL REFLEXING		•				
	mild	strong	strong			
PETAL UNDULATIO	N					
	present	absent	absent			
STIGMA IN RELATION	ON TO ANTHE	RS				
	above	above	below			

TABLE OF COMPARISON OF ROSE VARIETIES -- Continued

	'Tequila Sunrise'	*'Model of Perfection'	*'Mister Chips'
TERMINAL LEAF	LET LENGTH		
mean	42.2 mm	44.4 mm	51.6 mm
range	37-48	42-47	47-57
std. deviation	3.5	1.8	3.0
TERMINAL LEAF	LET WIDTH		
mean	30.0 mm	27.0 mm	33.55 mm
range	24-33	25-29	30-40
std. deviation	2.2	1.1	2.8
LEAF BASE SHA	PE		
	obtuse	obtuse	round

Variety: 'Savoy Hotel' commercial synonym 'Harvintage'

See fig. 15 in colour section. Application No. 92/027

Application Received: 30 March 1992

Applicant: Harkness New Roses Ltd, Rose Gardens, of

Hitchin Herts, United Kingdom

Australian Agent: S Brundrett and Sons Roses Pty Ltd, of

Narre Warren North, Victoria

Description—see also comparison tables

This variety is a medium sized long stemmed bush rose suitable for bedding. It has large leaves which are a dull light green; anthocyanin in the young shoots and a round leaf base. The stems are thorny as are the flower pedicels which are slightly prickly.

The flowers are produced from ovate buds and are of a pink blend colour matching the RHS 62D (inside the petal) to RHS 56A (outside the petal). The large double flowers are produced in a single habit and develop late in the season. The flowers are composed of more than 50 medium sized very reflexed petals, a yellow stamen and a red/purple style. The seed vessel is of a funnel shape with medium sepal extensions.

Origin

This variety arose from controlled pollination of 'Silver Jubilee' by 'Amber Queen'. It was bred by JL Harkness, of Harkness Rose Gardens, Hitchin Herts, United Kingdom. 'Savoy Queen' has been protected by Plant Variety Rights in United Kingdom since 1988. 'Savoy Queen' has been sold in United Kingdom since October 1989.

Comparators

'Royal Highness' and 'Memorium', both pink blend roses as is 'Savoy Hotel'.

Description prepared by D.McDonald, Agrisearch Services Pty Ltd

Table of Comparison of Rose Varieties

(* = comparator)

	'Savoy Hotel'	*'Royal Highness'	*'Memorium'
PETAL COLOUR	- RHS No.		
midzone outside	56A	69B	56D
midzone inside	62D	69D	69D-C
margin outside	56A	75C	55B
margin outside	62D	69D	55C

TABLE OF COMPARISON OF ROSE VARIETIES—Continued

	'Savoy Hotel'	*'Royal Highness'	*'Memorium'
FLOWER SIZE (fully open - stam	ens visible)	
mean	64.1 mm	73.3 mm	71.4 mm
range	54-73	62-81	60-81
std. deviation	6.09	6.9	7.9
FLOWERING TII	ME		
	late	early	early
FLOWER PEDIC	EL		
	prickly	smooth	prickly
STAMEN COLO	JR		
	yellow	red	yellow
STYLE COLOUP	₹		
	red-purple	red-purple	yellow
TERMINAL LEAF	LET LENGTH		
mean	53.7 mm	47.7 mm	39.2 mm
range	33-70	44-53	37-41
std. deviation	11.1	2.7	1.6
LEAF GLOSS			
	dull	glossy	dull
SEED VESSEL S	SHAPE		
	funnel	funnel	pitcher
SEPAL EXTENS	IONS		
	medium	weak	weak

Variety: 'Tantau's Bernstein Rose' commercial synonym

'Taneitber'. See fig. 16 in colour section.

Application No. 92/028

Application Received: 30 March 1992

Applicant: Rosen Tantau Tornescher, of Uetersen, Germany Australian Agent: S Brundrett and Sons Roses Pty Ltd, of Narre Warren North, Victoria

Description—see also comparison tables

This variety is a medium sized floribunda bush rose suitable for bedding. It has large leaves which are a glossy dark green; anthocyanin in the young shoots and a round leaf base. The stems are thorny as are the flower pedicels which are very prickly.

The flowers are produced from rounded buds and are of a yellow blend colour matching the RHS 11A–B outside the petal to RHS 23B–C inside the petal. The petals have a large basal spot on the inside surface. The medium sized flowers are produced in a cluster habit and develop late in the season. The flowers are fragrant and are composed of more than 50 medium sized non reflexed petals, a yellow stamen and a yellow style. The seed vessel is of a pitcher shape with weak sepal extensions.

Origin

This variety arose from controlled pollination of two unnamed seedlings. It was bred by Hans-Jurgen Evers of Uetersen, Germany. Plant variety rights have been applied for in Germany and Switzerland for 'Tantau's Bernstein Rose'. 'Tantau's Bernstein Rose' was first sold in Germany in October 1987.

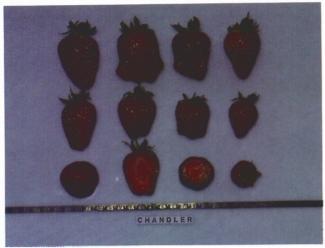


Fig. 1. Fruit of 'Chandler'. (Photograph supplied by applicant)

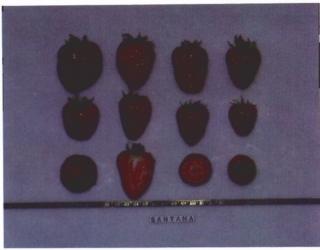


Fig. 4. Fruit of 'Santana'. (Photograph supplied by applicant)

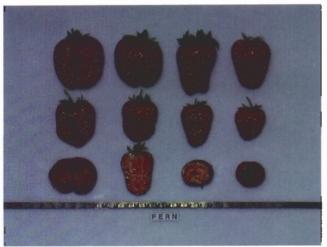


Fig. 2. Fruit of 'Fern'. (Photograph supplied by applicant)

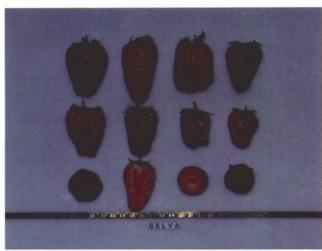


Fig. 5. Fruit of 'Selva'. (Photograph supplied by applicant)

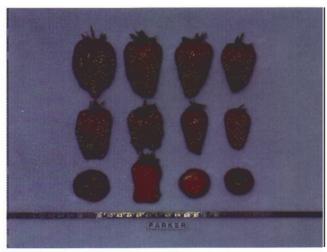


Fig. 3. Fruit of 'Parker'. (Photograph supplied by applicant)

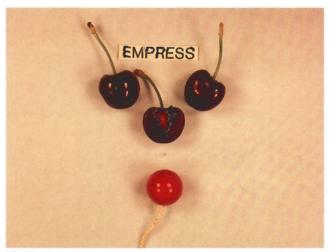


Fig. 6, Fruit of "Empress" with the minimum maturity standard (the No. 3 colour comparator) for the Australian market. (Photograph supplied by applicant)



Fig. 7. 'Flower Carpet'. (Photograph supplied by applicant).



Fig. 10. Flowers of 'Tickled Pink'. (left, labelled 'PVR variety') and 'Lady Stephanie'. (Photograph supplied by applicant)

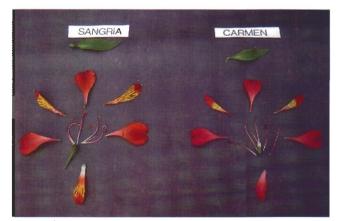


Fig. 8. 'Sangria' with the comparative variety 'Carmen'. (Photograph supplied by applicant).



Fig. 9. 'Peter Nitschke'. (right) with the comparative variety 'Castlewellan Gold' (left). (Photograph supplied by applicant)

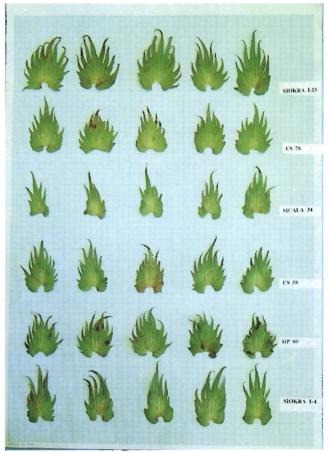


Fig. 11. Typical bracts of the new varieties 'Siokra L23', 'CS 7S', 'Sicala 34' and 'CS 50' compared with the standard 'DP 90' and 'Siokra 1-4'. (Photograph supplied by applicant).

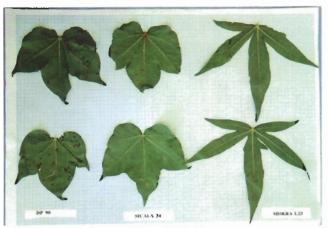


Fig. 12. Typical leaves of 'DP 90', 'Sicala 34' and 'Siokra L23'. Angular leaf spot caused by bacterial blight (*Xanthomonas campestris pv malvacearum*) is evident on 'DP 90'. (Photograph supplied by applicant).



Fig. 15. 'Savoy Hotel'. (Photograph supplied by applicant).

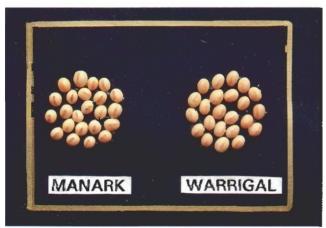


Fig. 13. Seed of soybeans 'Manark' and 'Warrigal'. (Photograph supplied by applicant)



Fig. 16. 'Tantau's Bernstein Rose'. (Photograph supplied by applicant).



Fig. 14. 'Tequilia Sunriis€'. (Photograph supplied by applicant).



Fig. 17. 'Magnum'. (Photograph supplied by applicant)



Fig. 18. 'Sphinx'. (Photograph supplied by applicant)

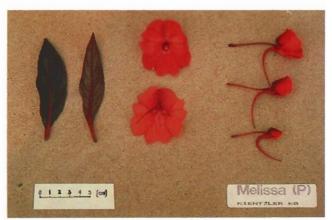


Fig. 21. 'Melissa'. (Photograph supplied by applicant)

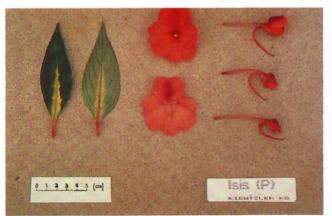


Fig. 19. 'Isis'. (Photograph supplied by applicant)



Fig. 22. Tobago'. (Photograph supplied by applicant)

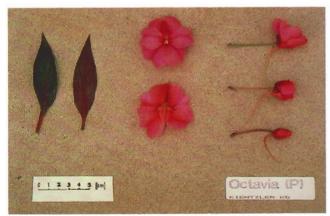


Fig. 20. 'Octavia". (Photograph supplied by applicant)



Fig. 23. "Tonga". (Photograph supplied by applicant)



Fig. 24. 'Papete'. (Photograph supplied by applicant)



Fig. 27. 'Maui'. (Photograph supplied by applicant)



Fig. 25. 'Samoa'. (Photograph supplied by applicant)



Fig. 28. 'Lanai'. (Photograph supplied by applicant)



Fig. 26. 'Trinidad'. (Photograph supplied by applicant)



Fig. 29. 'Barbados'. (Photograph supplied by applicant)



Fig. 30. 'Marpesia'. (Photograph supplied by applicant)



Fig. 33. 'Tahiti'. (Photograph supplied by applicant)



Fig. 31, 'Bora Bora'. (Photograph supplied by applicant)



Fig. 34. 'Aruba'. (Photograph supplied by applicant)



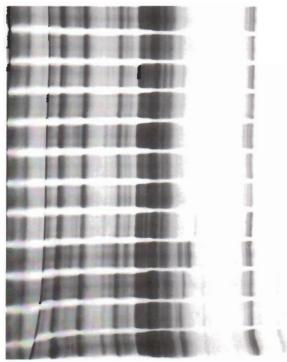
Fig. 32. 'Fiji'. (Photograph supplied by applicant)



Fig. 35. 'Antigua'. (Photograph supplied by applicant)



Fig. 36. 'Toucan Tango'. (Photograph supplied by applicant)



Jackaroo
Tasdale
Martlet
Tasmanian No 1
Jackaroo
Ellet
Grasslands Nui
Yatsyn 1
Grassland Greenstone
Roper
Brumby
Droughtmaster

Fig. 37. SDS polyacrylanide gel electrophoresis of seed protein of ryegrass varieties. (Photograph supplied by DSIR Fruit and Trees). A description of 'Jackaroo' was published in Vol. 5, No. 1, March 1992.

Comparators

'Sun King' and 'McGredy's Sunset', both yellow blend roses as is 'Tantau's Bernstein Rose'.

Description prepared by D.McDonald, Agrisearch Services Pty Ltd

Table of Compar	ison of Ros	e Varieties	
(* = comparator)	_		
	'Tantau's Bernstein Rose'	"Sun King"	*'McGredy's Sunset'
PETAL COLOUR - RI	HS No.		
midzone outside	11A-B	20A	13C
midzone inside	23B	14A-B	12A
margin outside	11A-B	15C	13C
margin outside	23C	13B	13C
FLOWER SIZE			
теап	76.1 mm	94.1 mm	93.5 mm
range	66-85	92-105	80-110
std. deviation	5.7	6.4	5.2
FLOWERING TIME			
	late	medium	early
FLOWER PEDICEL			
	very prickly	smooth	slightly prickly
PETAL BASAL SPOT			
inside	present	absent	present
outside	absent	present	absent
size (1-10,			
1 = smallest)	6	1	8
STIGMA IN RELATIO	N TO THE AN	ITHERS	
	same level	same level	below
STAMEN COLOUR			
	yellow	red	yellow
STYLE COLOUR			
	yellow	red	yellow/green
TERMINAL LEAFLET	LIENIGTH		
mean	45.5 mm	60.4 mm	52.0 mm
range	40-52	46-76	45-65
std. deviation	3.4	12.1	3.3
LEAIF COLOUR			
	dank green	dark green	liighti green
LEAF GLOSS			
	glossy	dull	dull

LETTUCE Lactuca sativa

Variety: 'Magnum' See fig. 17 in colour section

Application No. 92/031

Application Received: 19 March 1992

Applicant: Arthur Yates & Co Pty Ltd of Milperra, NSW,

Australia

Description—see also comparison tables

'Magnum' is a Salinas-Vanguard type of crisphead lettuce with a firm, round well covered head and is medium in its maturity. There is no anthocyanin in the foliage and the wrapper leaves are slightly buildly and medium-green (RHS 137B). At the 3-4 true-leaf stage the leaves are erect, lobed, medium-green, short-attenuate and the cotyledons described as narrow elliptical.

'Magnum' is most similar to 'Target' but differs significantly in days to maturity from transplanting, head weight and head diameter. Random amplification of polymorhpic DNA (RAPD) analysis indicates that 'Magnum' is dissimilar to 'Target' by demonstrating a genetic difference for every 3.6 RAPD tests/primers used.

Origin

'Magnum' was developed by controlled pollination of 'Salinas' x 'Capitan'. Field nurseries in Australia and finally California over two seasons have identified that the selected line is uniform for phenotypic characters.

Comparators

'Target', the closest known variety to 'Magnum'.

Comparative Growing Trials

All characteristics described result from comparative growing trials conducted at Narromine. New South Wales in spring, 1991 with spaced plants grown from transplanted seedlings. Measurements are from 50 mature plants taken at random from each variety. Identification of Dm genes to Bremia lactucae were determined by assay against reference isolates of the fungus by the Horticultural Research International, Wellesbourne, Eugland in 1986, 1989 and 1991.

Agronomy

'Magnum' is suitable for culture in coastal areas of Australia and California and inland areas of NSW wherever 'Target' is grown. 'Target' can be grown during autumn and spring. 'Magnum' is suited to mature slightly after 'Target' in autumn and before 'Target' in spring.

Description prepared by Dan Trimhole, Arthur Yates and Co. Pty Ltd

(* = comparator)		
	'Magnum'	*'Targiet'
MATURITY (No.	of days from transplant)	
mean	51.6	49.5
range	47-54	47-53
s.e.		0,1807
t-value		9.9612**
PLANT DIAMET	ER	
mean	49.5 cm	48.7 cm
range	42-58	44-54
s.e.		1.1653
-value		0.652
HEAD WEIGHT		_
mean	1112.5 g	1031.5 g
ange	800-1300	825-1275
.e.		19.7246
-value		4.1065**

TABLE OF COMPARISON OF LETTUCE VARIETIES—Continued

HEAD DIAMETER		
mean	15.0 cm	14.6 cm
range	13.5-16.5	13.0-16.0
s.e.		1.4160
t-value		3.1179**
HEAD HEIGHT		
mean	13.7 cm	13.6 cm
range	12.0-14.5	11.5-15.0
s.e.		3.0190
t-value		0.4306
CORE LENGTH		
mean	50.1 mm	47.4 mm
range	30-70	35-65
s.e.		1.6485
t-value		1.6378
CORE DIAMETER		
mean	41.8 mm	40.8 mm
range	35-50	35-48
s.e.		0.9772
t-value		0.9414
Dm genes to Bremia	5/8, 11	5/8, 11

^{**} significant at 0.01 level

IMPATIENS

Impatiens hawkeri

Comparative Growing Trials

All characteristics and comparisons below are from comparative growing trials conducted at Emerald in Victoria. Growing conditions were the same used as for commercial production. Five plants of each variety were grown in a pinebark-based medium enriched with time release fertiliser. These were situated in a heated, whitewashed poly-tunnel maintained at between 16–35 degrees Celsius. Measurements represent 20 randomly chosen specimens from these plants taken six months after potting on.

Descriptions prepared by Roy Rother and PVRO

Variety: 'Sphinx' See fig. 18 in colour section

Application No. 92/032

Application Received: 7 April 1992

Applicant: L Kientzler, of Kientzler KG, Gensingen

Germany

Australian Agent: RW Rother of Outeniqua Nursery,

Emerald, Victoria

Description—see also comparison tables

'Sphinx' is a small to medium sized plant with dark green, lanceolate leaves and a simple white flower with reddish pigmentation in the upper petal. 'Sphinx' has a compact growth habit and dark green stems.

Origin

'Sphinx' was selected from the seedling progeny of 'Jasius' and 'C3201' in 1988. Plant variety rights have been applied for in Germany.

Comparators

'Jasius' is the closest known variety to 'Sphinx' in flower colour and size and it is commonly available in Australia.

Table of C	omparison of	i Impatiens	Varieties

(* = comparator)		
	'Sphinx'	*'Jasius'
PLANT HEIGHT		
mean	247 mm	252 mm
range	220-320	240-290
std. deviation	21.6	15.8
PLANT DIAMETER		
mean	338 mm	436 mm
range	260-400	410-460
std. deviation	18.4	20.9
_EAF LENGTH		
mean	109 mm	142 mm
range	98-130	120-165
std. deviation	10.45	16
LEAF WIDTH		
mean	32 mm	29 mm
ange	24-40	26-31
std. deviation	5.66	1.5
_EAF SHAPE		
	lanceolate	elliptic
EAF COLOUR		
upper surface	RHS 139	RHS 137A
ower surface	RHS 137A/B	_
EAF MARKINGS		
	absent	absent
LOWER DIAMETER		-
mean	52 mm	48 mm
ange	46-58	42-54
std. deviation	7.25	2.5
FLOWER COLOUR		
orimary	white	white
secondary	RHS 65D	_
EYE ZONE		
	absent	absent

Variety: 'Isis' See fig. 19 in colour section

Application No. 92/033

Application Received: 7 April 1992

Applicant: L Kientzler, of Kientzler KG, Gensingen

Germany

Australian Agent: **RW Rother** of Outeniqua Nursery, Emerald, Victoria

Description—see also comparison tables

'Isis' is a hybrid impatiens of medium height and less compact than the comparative variety 'Eurema'. The leaves are oblance-olate, dark green on the upper surface and light green underneath. Yellow leaf blade markings are present. 'Eurema' in comparison, shows a distinct reddish pigment on the undersides of leaves as well as more pronounced red pigmentation of the midrib. The flowers of 'Eurema' are a darker red and show purple/red on the outer perimeter of the petals with the ageing of the flowers.

Origin

'Isis' was selected from the seedling progeny of 'C155' and '660' in 1988. Plant variety rights have been applied for in Germany.

Comparators

'Eurema' a Kientzler hybrid, is the closest known to 'Isis' in flower colour and size.

Table of Comparison of Impatiens Varieties			
(* = comparator)			
	'Isis'	*'Eurema'	
PLANT HEIGHT			
mean	310 mm	258 mm	
range	250-380	250-270	
std. deviation	17.6	16	
PLANT DIAMETER		-	
mean	436 mm	384 mm	
range	370-500	360-400	
std. deviation	20.9	20	
LEAF LENGTH	•		
mean	98 mm	110 mm	
range	84-126	92-144	
std. deviation	9.9	12	
LEAF WIDTH			
mean	32 mm	42 mm	
range	24-40	34-51	
std. deviation	5.6	3	
LEAF SHAPE			
	lanceolate	elliptic	
LEAF COLOUR—RHS No.			
upper	139A	139A	
lower	148B	59A	
LEAF MARKINGS			
	RHS 11C	RHS 151A	
FLOWER COLOUR			
	RHS 40B	RHS 41B	
FLOWER DIAMETER			
mean	52 mm	55 mm	
range	38-61	48-57	
std. deviation	7.2	3.0	
EYE ZONE			
	absent	absent	

Variety: 'Octavia' See fig. 20 in colour section

Application No. 92/034

Application Received: 7 April 1992

Applicant: L Kientzler, of Kientzler KG, Gensingen,

Germany

Australian Agent: RW Rother of Outeniqua Nursery,

Emerald, Victoria.

Description—see also comparison tables

'Octavia' is a small to medium sized hybrid impatiens, compact in growth habit with green stems and dark green, oblance-

olate leaves without blade markings. Flowers are simple and predominantly purple/violet with zones of red-purple on the upper surface of a single petal and on the undersides of petals. A distinct reddish/purple eye zone is apparent. 'Octavia' differs from 'Celerio' in being more compact and in the reverse side of the flower, which shows purple/violet and reddish/purple colouration.

Origin

'Octavia' was selected from the seedling progeny of 'Celerio' and 'C280' in 1988. Plant variety rights have been applied for in Germany.

Comparators

'Celerio', a Kientzler hybrid, is the closest in flower colour and size and is commonly available in Australia.

Table of Comparison of <i>Impatiens</i> Varieties			
(* = comparator)			
	'Octavia'	*'Celerio'	
PLANT HEIGHT			
теап	268 mm	252 mm	
range	220-300	240-250	
std. deviation	16.4	15.9	
PLANT DIAMETER			
mean	400 mm	506 mm	
range	290–490	470-560	
std. deviation	20	22.5	
LEAF LENGTH			
mean	114 mm	102 mm	
range	95–140	93-113	
std. deviation	10.7	6	
LEAF WIDTH			
mean	38 mm	37 mm	
range	32-44	32-46	
std. deviation	6.1	2.5	
LEAF SHAPE			
	oblanceolate	oblanceolate	
LEAF COLOUR—RHS No.			
upper	139A	139A	
lower	183B	_	
LEAF MARKINGS			
	absent	153C	
FLOWER DIAMETER			
mean	54 mm	62 mm	
range	48-62	56-64	
std. deviation	7.3	2.0	
FLOWER COLOUR—RHS I	No.		
primary	81D	66A	
secondary	57A	80C	
reverse side	60A & 80C		
EYE ZONE COLOUR			
	66A	_	
DIAMETER OF EYE ZONE			
mean	16 mm	_	
range	13-20		
std. deviation	4.0		
TIME TO START FLOWERII	NG—days		
mean	24	30	
range	24-31	29-31	
std. deviation	5.2	0.1	
		·	



Variety: 'Melissa' See fig. 21 in colour section

Application No. 92/035

Application Received: 7 April 1992

Applicant: L Kientzler, of Kientzler KG, Gensingen

Germany

Australian Agent: RW Rother of Outeniqua Nursery,

Emerald, Victoria

Description—see also comparison tables

'Melissa' is a medium sized plant with a medium to upright growth habit and large, dark green, lanceolate leaves without blade markings. Flowers are simple and red with a distinct purple/magenta eye zone. 'Melissa' flowers more profusely than the comparative variety 'Sesia' and flowers have a distinct eye zone which is absent in 'Sesia'. 'Melissa' has lanceolate leaves while 'Sesia's' are ovate.

Origin

'Melissa' was selected from the seedling progeny of 'B36770' and 'B3900' in 1988. Plant variety rights have been applied for in Germany.

Comparators

'Sesia' a Kientzler hybrid is the closest known variety to 'Melissa' in size and colour of the flower.

Table of Comparison o	f <i>Impatiens</i> Varie	ties
(* = comparator)		
	'Melissa'	*'Sesia'
PLANT HEIGHT		
mean	310 mm	230 mm
range	280-360	200–250
std. deviation	17.6	15.2
PLANT DIAMETER		
mean	511 mm	390 mm
range	350-670	380-420
std. deviation	22.6	19.7
LEAF LENGTH		
mean	98 mm	83 mm
range	85-120	70-96
std. deviation	9.9	9.0
LEAF WIDTH		
mean	32 mm	33 mm
range	26-38	26-38
std. deviation	5.6	5.7
LEAF SHAPE		
	lanceolate	ovate
LEAF COLOUR—RHS No.		
upper surface	147A	139A
lower surface	184B	138B
LEAF MARKINGS	,	
	absent	absent
FLOWER DIAMETER		-
mean	54 mm	46 mm
range	50-60	42-50
std. deviation	7.4	6.8
FLOWER COLOUR		
primary	RHS 50B	RHS 520
secondary	RHS 52A	RHS 430
EYE ZONE COLOUR		
	RHS 85D (outer)	absent
	RHS 74A (inner)	



Variety: 'Tobago' See fig. 22 in colour section

Application No. 92/036

Application Received: 7 April 1992

Applicant: L Kientzler, InnovaPlant GMBH & Co.,

Gensingen, Germany

Australian Agent: RW Rother of Outeniqua Nursery,

Emerald Victoria

Description-see also comparison tables

'Tobago' is a compact plant with dark foliage without leaf markings. Flowers are larger and more intensely coloured than those of the comparative variety 'Sesia'. Flowers have a distinct red/purple eye zone.

Origin

'Tobago' was selected from the seedling progeny of 'E153' and 'D528'. It is protected in Germany, Italy, USA and Japan under the synonym 'Kibago'.

Comparators

'Sesia', a Kientzler KG variety is the closest known hybrid cultivar commonly available in Australia.

	'Tobago'	*'Sesia'
PLANT HEIGHT		
mean	190 mm	233 mm
range	170-220	200-250
std. deviation	18.7	15.2
PLANT DIAMETER		
mean	356 mm	390 mm
range	320-400	380-420
std. deviation	32.86	19.7
LEAF LENGTH		
mean	78.1 mm	83 mm
range	70-90	70-96
std. deviation	6.47	9.0
LEAF COLOUR		_
	RHS 139A	RHS 139A
FLOWER DIAMETER		
mean	58.1 mm	46 mm
range	53-68	42-50
std. deviation	3.55	6.8
FLOWER COLOUR		
	RHS 52C	RHS 52C (primary)
		RHS 43C (secondary
EYE ZONE COLOUR		
	RHS 61B	absent

Variety: 'Tonga' See fig. 23 in colour section Application No. 92/037

Application Received: 7 April 1992

Applicant: L Kientzler, InnovaPlant GMBH & Co.,

Gensingen, Germany

Australian Agent: RW Rother of Outeniqua Nursery,

Emerald, Victoria

Description—see also comparison tables

'Tonga' is a hybrid impatiens variety more compact than the comparative variety 'Saturnia'. It has large flowers, flowers more profusely than 'Saturnia', and flowers have a distinct white eye zone.

Origin

'Tonga' was selected from the seedling progeny of 'D657' and 'E278'. It is protected in Germany, Italy, USA and Japan under the synonym 'Kingia'.

Comparators

'Saturnia', a Kientzler cultivar, is the closest known hybrid impatiens for comparison.

Table of Comparison of Impatiens Varieties			
(* = comparator)	(* = comparator)		
	'Tonga'	* 'Saturnia'	
PLANT HEIGHT			
mean	220 mm	170 mm	
range	160-280	150-180	
std. deviation	44.72	8	
PLANT DIAMETER			
mean	330 mm	370 mm	
range	280-360	350-400	
std. deviation	30.82	12	
LEAF LENGTH			
mean	98 mm	106 mm	
range	80-115	96-114	
std. deviation	10.46	12	
LEAF WIDTH			
mean	36.6 mm	38.0 mm	
range	32-40	34-44	
std. deviation	3.1	4.0	
LEAF COLOUR			
	RHS 147A	RHS 147A	
FLOWER DIAMETER			
mean	65 mm	60 mm	
range	58-70	58-64	
std. deviation	2.9	1.0	
FLOWER COLOUR		-	
primary	RHS 75A	RHS 77C-75A	
secondary	RHS 74B/C		
EYE ZONE COLOUR			
	white	white	

Variety: 'Papete' See fig. 24 in colour section

Application No. 92/038

Application Received: 7 April 1992

Applicant: L Kientzler, InnovaPlant GMBH & Co.,

Gensingen, Germany

Australian Agent: RW Rother of Outeniqua Nursery,

Emerald, Victoria

Description—see also comparison tables

'Papete' is a compact plant which branches more profusely than 'Dunya', the closest existing variety. It has flowers larger than those of 'Dunya' with a red/purple eye zone.

Origin

'Papete' was selected from the seedling progeny of 'D603' and 'D15'. It is protected in Germany, Italy, USA and Japan under the synonym 'Kipete'.

Comparators

'Dunya', a Kientzler cultivar, is the closest known variety commonly known in Australia.

(* = comparator)		
·	'Samoa'	*'Jasius'
PLANT HEIGHT		
mean	192 mm	279 mm
range	180-200	240-300
std. deviation	11.0	16.0
PLANT DIAMETER		
mean	318 mm	414 mm
range	300-340	360-450
std. deviation	17.9	20.0
LEAF LENGTH		
mean	97.9 mm	69.0mm
range	80-110	54-86
std. deviation	9.7	8.4
LEAF WIDTH		
mean	38.4 mm	33.0 mm
range	32-44	26-39
std. deviation	2.6	5.7
LEAF COLOUR		
upper surface	RHS 137A	RHS 147A
lower surface	_	RHS 138B
FLOWER DIAMETER		
mean	61.7 mm	52.0 mm
range	56-64	45-60
std. deviation	2.9	7.2
FLOWER COLOUR		
	RHS 74A	RHS 66A
EYE ZONE		
	present	absent

Variety: 'Trinidad' See fig. 26 in colour section

Application No. 92/039

Application Received: 7 April 1992

Applicant: L Kientzler, InnovaPlant GMBH & Co.,

Gensingen, Germany

Australian Agent: RW Rother of Outeniqua Nursery.

Emerald, Victoria

Description—see also comparison tables

'Trinidad' is a new hybrid impatiens cultivar which has smaller, darker leaves than 'Mimas', the closest existing variety. 'Trinidad' has a larger, flatter flower with a surface sheen.

Origin

'Trinidad' was selected from the seedling progeny of 'E127' and 'D392'. It is protected by PVR in Germany, Italy, USA and Japan under the synonym 'Kinida'.

Comparators

'Mimas', a Kientzler cultivar, is the closest known and freely available hybrid impatiens was used as a comparative variety.

Table of Comparison of <i>Impatiens</i> Varieties (* = comparator)		
PLANT HEIGHT	<u> </u>	
mean	242 mm	190 mm
range	200-300	170–200
std. deviation	37.7	6.0
PLANT DIAMETER		
mean	356 mm	400 mm
range	330-400	375–410
std. deviation	32.1	7.0
LEAF LENGTH		
mean	96.7 mm	118 mm
range	75–112	110–140
std. deviation	9.9	12.0
LEAF WIDTH		
mean	38.8 mm	40.0 mm
range	32-49	36-38
std. deviation	5.1	3.0
LEAF COLOUR		
	RHS 139A	RHS 137A
LEAF MARKINGS		
	absent	present
FLOWER DIAMETER		
mean	63.6 mm	60.0 mm
range	59–72	56-66
std. deviation	3.5	4.0
FLOWER COLOUR		
	RHS 66B	RHS 66B

Variety: 'Maui' See fig. 27 in colour section

Application No. 92/040

Application Received: 7 April 1992

Applicant: L Kientzler, InnovaPlant GMBH & Co.,

Gensingen, Germany

Australian Agent: RW Rother of Outeniqua Nursery,

Emerald, Victoria

Description—see also comparison tables

'Maui' is a new impatiens cultivar more compact than 'Melissa', the closest existing variety, and with a larger, more intensely coloured flower with visible red eye zone.

Origin

'Maui' was selected from the seedling progeny of 'E239' and 'Melissa'. It is protected by PVR in Germany, Italy, USA and Japan under the synonym 'Kima'.

Comparators

'Melissa', a Kientzler cultivar is the closest known variety to 'Maui'.

Table of	Comparison	of Impat	iens Varie	ties
/* - compar	ator)			

	'Maui'	*'Melissa'
PLANT HEIGHT		
mean	176 mm	310 mm
range	160-190	280-360
std. deviation	11.4	17.6
PLANT DIAMETER		
mean	390 mm	511 mm
range	370-420	550-670
std. deviation	20	22.6
LEAF LENGTH		
mean	98. mm	98 mm
range	85-120	85-120
std. deviation	10.8	9.9
LEAF WIDTH		
mean	39 mm	32 mm
range	30-47	26-38
std. deviation	4.9	5.6
LEAF COLOUR		
upper surface	RHS 139A	RHS 147
ower surface	RHS 59A	RHS 1848
FLOWER DIAMETER		
mean	60.5 mm	54.0 mm
range	55-65	50-60
std. deviation	3.44	7.35
FLOWER COLOUR		
primary	RHS 43A/B	RHS 43B
secondary	_	RHS 43C
EYE ZONE COLOUR		
outer	RHS 50A/B	RHS 85D
inner	_	RHS 94A

Variety: 'Samoa' See fig. 25 in colour section

Application No. 92/041

Application Received: 7 April 1992

Applicant: L Kientzler, InnovaPlant GMBH & Co.,

Gensingen, Germany

Australian Agent: RW Rother of Outeniqua Nursery,

Emerald, Victoria

Description—see also comparison tables

'Samoa' is a new impatiens cultivar slightly wider in growth habit than the comparative variety 'Jasius'. It has darker foliage and large pure white orchid shaped flowers with red/purple eye zone.

Origin

'Samoa' was selected from the seedling progeny of 'E133' and 'D3405'. It is protected in Germany, Italy, USA and Japan under the synonym 'Kimoa'.

Comparators

'Jasius', a Kientzler cultivar is the closest known variety and was used as a comparison plant.

		
	'Samoa'	*'Jasius'
PLANT HEIGHT		
mean	208 mm	252 mm
range	180-230	240-290
std. deviation	19.2	15.8
PLANT DIAMETER		
mean	400 mm	436 mm
range	340-480	410-460
std. deviation	56.1	20.9
LEAF LENGTH		
mean	88. mm	142 mm
range	73–112	120-165
std. deviation	12.	16
LEAF WIDTH		
mean	36 mm	29 mm
range	23-42	26-31
std. deviation	5.8	1.5
LEAF COLOUR		_
	RHS 147A	RHS 137A
FLOWER DIAMETER		
mean	60 mm	48 mm
range	5 6–6 6	42-54
std. deviation	2.8	2.5
FLOWER COLOUR	- A) - II	
	Clear white &	white
	RHS 56D blush	
EYE ZONE COLOUR		
	RHS 57C	absent

Variety: 'Lanai' See fig. 28 in colour section

Application No. 92/042

Application Received: 7 April 1992

Applicant: L Kientzler, InnovaPlant GMBH & Co.,

Gensingen, Germany

Australian Agent: RW Rother of Outeniqua Nursery,

Emerald, Victoria

Description—see also comparison tables.

'Lanai' is a new impatiens hybrid producing red flowers with a distinct red purple eye zone. 'Lanai' has a more compact growth habit and flowers earlier and more profusely than the comparative variety 'Selenia'.

Origin

'Lanai' was selected from the seedling progeny of 'Selenia' and 'D456'. It is protected in Germany, Italy, USA and Japan under the synonym 'Kinai'.

Comparators

'Selenia', a Kientzler selection is the closest known cultivar available in Australia.

Table of Comparison of Impatiens Varieties

(* = comparator)

	'Lanai'	'Selenia'*
PLANT HEIGHT		
mean	216 mm	148 mm
range	180-230	110-170
std. deviation	21.4	25
PLANT DIAMETER		
mean	414 mm	358 mm
range	370-450	330-370
std. deviation	30.49	14
LEAF LENGTH		
mean	105.8 mm	116 mm
range	86-135	92-128
std. deviation	13.98	5
LEAF WIDTH		
mean	40.3 mm	34 mm
range	32-50	31-42
std. deviation	4.59	0.6
LEAF COLOUR		
	RHS 147A	RHS 139A
FLOWER DIAMETER		
mean	55.9 mm	61 mm
range	51–60	50-64
std. deviation	2.97	0.5
FLOWER COLOUR		
	RHS 44A/D	RHS 33A
EYE ZONE COLOUR		
	RHS 66A	absent

Variety: 'Barbados' See fig. 29 in colour section

Application No. 92/043

Application Received: 7 April 1992

Applicant: L Kientzler, Innova Plant GmbH & Co. KG.

Germany

Australian Agent: RW Rother of Outeniqua Nursery,

Emerald, Victoria

Description—see also comparison tables

'Barbados' is a compact plant which has green foliage without variegation and which is light green on the underside. Flowers are red and the flower colour is more intense than in 'Isis', the comparative variety.

Origin

'Barbados' was selected from the seedling progeny of 'D224' and 'D17'. It is protected by PVR in Germany, Italy, USA and Japan under the synonym 'Kibados'.

Comparators

'Isis', a Kientzler cultivar, and the closest known variety to 'Barbados'.

Table of Comparison of Impatiens Varieties

(* = comparator)

	'Barbados'	* 'Isis'
PLANT HEIGHT		
mean	214 mm	310 mm
range	180-250	250-380
std. deviation	28.8	17.6

TABLE OF COMPARISON OF IMPATIENS VARIETIES—Continued

	'Barbados'	* 'Isis'
PLANT DIAMETER		
mean	426 mm	436 mm
range	380-460	370-500
std. deviation	28.8	20.9
LEAF LENGTH		
mean	100.75 mm	98 mm
range	80-120	84-126
std. deviation	10.43	9.9
LEAF WIDTH		-
mean	35.6 mm	32 mm
range	28-46	24-40
std. deviation	4.5	5.6
LEAF COLOUR		
upper	139	139A
lower	137C	148B
	oblanceolate	lanceolate
LEAF MARKINGS		
	absent	present
LEAF SHAPE		
	oblanceolate	anceolate
FLOWER DIAMETER		
mean	54 mm	52 mm
range	50-60	38-61
std. deviation	2.7	7.2
FLOWER COLOUR		
	RHS 40A/B	RHS 40B
EYE ZONE COLOUR		
	RHS 57A/B	_

Table of Comparison	Table of Comparison of Impatiens Varieties = comparator)	
(* = comparator)		
	'Marpesia'	*'Anaea'
PLANT HEIGHT		
mean	260 mm	278 mm
range	230-300	230-290
std. deviation	29.2	22.1
PLANT DIAMETER		
mean	440 mm	419 mm
range	400-470	310-460
std. deviation	29.2	19.5
LEAF LENGTH		
mean	107 mm	105 mm
range	95-117	85-132
std. deviation	6.0	10.5
LEAF WIDTH		
mean	340 mm	34 mm
range	35-45	27-40
std. deviation	3.3	5.8
LEAF COLOUR		
	RHS 136A	RHS 139A
	red pigmented	
	on underside	
FLOWER DIAMETER	-	
mean	58 mm	61 mm
range	52-65	46-67
std. deviation	3.9	7.8
FLOWER COLOUR		
	RHS 44A	RHS 45B-46B
EYE ZONE COLOUR		
	purple red/white	absent

Variety: 'Marpesia' See fig. 30 in colour section

Application No. 92/044

Application Received: 7 April 1992

Applicant: L Kientzler, Innova Plant GMBH, Germany Australian Agent: RW Rother of Outeniqua Nursery,

Emerald, Victoria

Description—see also comparison tables

'Marpesia' is a medium compact growing plant with dark green, wide, oblanceolate leaves pigmented red on underside. Flowers are large and bright red with a purple-red and white eye zone.

Origin

'Marpesia' was selected from the seedling progeny of 'D230' and 'E176'. It is protected by PVR in Germany, Italy, USA and Japan.

Comparators

'Anaea', a Kientzler KG variety is the closest known hybrid commonly available in Australia.

Variety: 'Bora Bora' See also fig. 31 in colour section

Application No. 92/045

Application Received: 7 April 1992

Applicant: L Kientzler, InnovaPlant GmbH & Co. KG,

Germany

Australian Agent: RW Rother of Outeniqua Nursery,

Emerald, Victoria.

Description—see also comparison tables

'Bora Bora' is a hybrid impatiens with a medium compact growth habit and dark green oblanceolate leaves which are light green on the underside. Flowers are very large, simple, and purple violet with a distinct white shaded eye zone.

Origin

'Bora Bora' was selected from the seedling progeny of D17 and D426. It is protected by PVR in Germany, Italy, USA and Japan under the synonym 'Kibora'.

Comparators

'Corona', a royalty administration CV variety is the closest known variety commonly known in Australia.

(* = comparator)		
	'Bora Bora'	* 'Corona'
LEAF LENGTH		
mean	96 mm	128 mm
range	85-107	112-144
std. deviation	8.36	14.0
LEAF WIDTH		
mean	38 mm	47 mm
range	33-45	42-55
std. deviation	3.21	3.0
LEAF COLOUR		
	RHS 139A	RHS 139B
		(blade markings
		RHS 12A)
LEAF SHAPE		-
	oblanceolate	elliptic
FLOWER DIAMETER		
mean	50.75 mm	61 mm
range	46-55	53-63
std. deviation	2.71	1.0
FLOWER COLOUR		
	RHS 80B	RHS 73A
EYE ZONE COLOUR		
	RHS 155A	RHS 66A

	'Fiji'	* 'Delias'
PLANT DIAMETER		
mean	402 mm	296 mm
range	340-460	220-320
std. deviation	54.03	12
LEAF LENGTH		
mean	102.35 mm	112 mm
range	81-135	98-128
std. deviation	12.17	3
EAF WIDTH		
mean	37.15 mm	35 mm
ange	32-44	32-41
std. deviation	3.56	1.5
EAF COLOUR	<u> </u>	
upper surface	139A	147A
ower surface	137A/B	
LOWER DIAMETER		
mean	55.4 mm	58 mm
ange	52-60	52-60
std. deviation	2.43	3.0
LOWER COLOUR		
	RHS 65A-C	RHS 66C
EYE ZONE COLOUR	•	
	RHS 66A/B	RHS 66B

Variety: 'Fiji' See also fig. 32 in colour section

Application No. 92/046

Application Received: 7 April 1992

Applicant: L Kientzler, Innova Plant GMBH, Germany Australian Agent: RW Rother of Outeniqua Nursery,

Emerald Vic.

Description—see also comparison tables

'Fiji' is a compact growing plant with dark green lanceolate leaves and a slightly smaller flower than the comparative variety, 'Delias'. Flowering is more profuse and slightly earlier than 'Delias'.

Origin

'Fiji' was selected from the seedling progeny of 'E710' and 'Delias'. It is protected in Germany, Italy, USA and Japan under the synonym 'Kiji'.

Comparators

'Delias', a Kientzler cultivar commonly available in Australia, is the comparative variety for 'Fiji'.

V	ariety:	ʻT	ahiti'	See	fig.	33	in	colour	section
	• •			0.00					

Application No. 92/047

Application Received: 7 April 1992

Applicant: L Kientzler, Innova Plant GMBH, Germany Australian Agent: RW Rother of Outeniqua Nursery,

Emerald Vic.

Description—see also comparison tables

'Tahiti' is a compact growing hybrid impatiens with superior branching habit, dark green leaves and large flowers with large purple-red eye zone.

Origin

'Tahiti' was selected from the seedling progeny of 'E510' and 'E390'. It is protected in Germany, Italy, USA and Japan under the syn 'Kiti'.

Comparators

'Celsia', a Kientzler cultivar, has been used for comparison and is the closest cultivar to 'Tahiti'.

Table of Comparison of Impatiens Varieties					
(* = comparator)					
	'Fiji'	* 'Delias'			
PLANT HEIGHT					
mean	192 mm	74 mm			
range	170-210	30-90			
std. deviation	14.83	18			

Table of Comparison of <i>Impatiens</i> Varieties (* = comparator)					
LEAF LENGTH		···			
mean	95 mm	73 mm			
range	72-115	62-90			
std. deviation	11.7	8.5			

TABLE OF COMPARISON OF IM	PATIENS VARIETIES—	Continued
---------------------------	--------------------	-----------

	'Tahiti'	*'Celsia'
LEAF WIDTH		
mean	37 mm	25 mm
range	26-54	20-35
std. deviation	6.0	5.0
LEAF COLOUR		
upper surface	RHS 147A	RHS 139A
lower surface	RHS 137B/C	RHS 197A/B
FLOWER DIAMETER		
mean	58 mm	49 mm
range	50-69	43-56
std. deviation	4.8	7.0
FLOWER COLOUR		
	65A-65C	68B/D
	heavily pigmented	
	to 66C	
EYE ZONE COLOUR		
	67A	66A/D

TABLEO	E COMPADISC	M OF MAD	ATIENS VAD	HETIES_	Continued

	'Aruba'	*'Apollon'
LEAF LENGTH		
mean	105 mm	116 mm
range	94-122	98-137
std. deviation	7.5	14.0
LEAF WIDTH		
mean	41 mm	52 mm
range	38-50	37-55
std. deviation	4	5
LEAF COLOUR		
primary	RHS 139A	RH\$ 137A
venation	RHS 59A	_
FLOWER DIAMETER		
mean	54 mm	60 mm
range	42-60	54-63
std. deviation	4	5
FLOWER COLOUR		
	RHS 72B/C	RHS 66B

Variety: 'Aruba' See also fig. 34 in colour section

Application No. 92/048

Application Received: 7 April 1992

Applicant: L Kientzler, Innova Plant GMBH, Germany Australian Agent: RW Rother of Outeniqua Nursery, Emerald Vic.

Description—see also comparison tables

'Aruba' is a compact growing plant with purple flowers and an improved branching habit and earlier, more profuse flowering than the comparative variety, 'Apollon'. Leaves are light red on the lower surfaces.

Origin

'Aruba' was selected from the seedling progeny of A46 and E1022. It is protected in Germany, Italy, USA and Japan under the synonym 'Kiruba'.

Comparators

'Apollon', a Kientzler cultivar is the closest known variety commonly available in Australia.

Variety: 'Antigua' See also fig. 35 in colour section

Application No. 92/049

Application Received: 7 April 1992

Applicant: L Kientzler, InnovaPlant GmbH & Co. KG,

Germany

Australian Agent: RW Rother of Outeniqua Nursery,

Emerald, Victoria

Description—see also comparison tables

'Antigua' is a hybrid impatiens cultivar and a small to medium compact growing plant with dark green oblanceolate leaves and markedly larger flowers than the comparative variety, 'Selenia'. 'Antigua' flowers earlier than 'Selenia' and has a larger flower with a distinct eye zone.

Origin

'Antigua' was selected from the seedling progeny of '85–17–04' and 'D367'. It is protected by PVR in Germany, Italy, USA and Japan under the synonym 'Kitigua'.

Comparators

'Selenia', a Kientzler hybrid is the closest known variety commonly available in Australia.

Table of Comparison of Impatiens Varieties

(* = comparator)

'Aruba'	*'Apollon'
230 mm	175 mm
180-250	160-180
28.3	12.0
-	
422 mm	370 mm
360-540	360-380
73.6	11.0
	230 mm 180–250 28.3 422 mm 360–540

Table of Comparison of Impatiens Varieties

(* = comparator)

(00pa.a.o.)		
	'Antigua'	* 'Selenia
PLANT HEIGHT	-	
mean	240 mm	148 mm
range	220-260	110-170
std. deviation	15.8	25.0
PLANT DIAMETER		
mean	424 mm	358 mm
range	380-470	330-370
std. deviation	38.5	14.0

TABLE OF COMPARISON OF IMPATIENS VARIETIES—Continued

	'Antigua'	* 'Selenia'
LEAF LENGTH		
mean	116 mm	116 mm
range	92-146	92-128
std. deviation	18.8	5.0
LEAF WIDTH		
mean	39.3 mm	34.0 mm
range	32-50	31-42
std. deviation	4.6	0.6
LEAF COLOUR		
	RHS 139A	RHS 139A
FLOWER DIAMETER		
mean	65.5 mm	61.0 mm
range	62-75	50-64
std. deviation	4.5	0.5
FLOWER COLOUR	_	-
	RHS 40A	RHS 33A
EYE ZONE COLOUR		
	RHS 74A/B	absent

BRACHYSCOME

Brachyscome multifida x rigidula

Variety: 'Toucan Tango' (Commercial synonym: 'Ultra')

See fig. 36 in colour section Application No. 92/050

Application Received: 7 April 1992

Applicant: Innova Plant GmbH & Co. KG, of Germany Australian Agent: RW Rother of Emerald, Victoria

Description—see also comparison tables

'Toucan Tango' is a compact Brachyscome producing large, light purple inflorescences on short peduncles. Internodes are short and the plant branches profusely. Inflorescences are deeper in colour and borne on shorter peduncles than are those of the existing form of *Brachyscome multifida*. 'Toucan Tango' flowers earlier, longer and more profusely than the existing form. Petals are obtuse at the apex and oblanceolate whereas *B. multifida* has acute/lanceolate petals. Petals of the inflorescence recurve and overlap more frequently giving the flower a fuller appearance. The involucral bracts have' an obtuse to retuse apex and are oblanceolate.

Origin

'Toucan Tango' originated at Gensingen in Germany as a selection of seedling progeny as a result of breeding trials by Innova Plant, between Brachyscome rigidula and B. multifida seedling 5/88. The resultant variety was propagated for more than 5 generations to ensure stability.

Comparators

Brachyscome multifida, there being no named varieties of this species.

Comparative Growing Trials

All characteristics described are from comparative growing trials conducted at Outeniqua nursery in Emerald, Victoria between October 1991 and March 1992. Five plants of each variety were arranged at random and grown in full sun without any protection whatsoever. Tip cuttings were used to produce plantlets which were potted in typical commercial pinebark and sand potting medium enriched with time release fertiliser. No pruning, shaping or dwarfing of any type was undertaken. Measurements were taken in late March 1992.

Description prepared by Roy Rother and PVRO

	'Tousen Tenne'	* Dunah
	'Toucan Tango'	* Brachyscome multifida
PLANT HEIGHT		
mean	109 mm	144 mm
range	100-120	150-200
std. deviation	7.4	13.9
PLANT DIAMETE	ER	
mean	224	166
range	210-230	150-200
std. deviation	8.9	28.9
HABIT		
	Compact. Tight	Upright. Floppy habit
	spreading from	without pruning.
	base.	
BRANCHING		
	More numerous	Less numerous
	short internodes	longer internodes
INFLORESCENC	E DIAMETER	
mean	29.7 mm	26.8 mm
range	26-32	22-31
std. deviation	1.7	3.01
INFLORESCENC	E CHARACTERISTICS	
	Overlapping	Petals curved up
	recurving petals	less overlapping
	on mature	
	inflorescence	
INFLORESCENC	E PEDUNCLE LENGTH	
mean	75 mm	118 mm
range	66-88	95
std. deviation	8.5	9.4
INFLORESCENC		
	RHS 86B/C	RHS 76A
	fading to 90D	fading to 76B
PETAL SHAPE		
	oblanceolate	lanceolate with
	with obtuse/	acute/retuse apex
	retuse apex	
CALYX DIAMETE	:R	
OALI A DIAMETE		
	8.1 mm	6.8 mm
mean range std. deviation	8.1 mm 7-9 0.68	6.8 mm 6-8 0.63

(b) Descriptions to be finalised

Descriptions for the Journal are being finalised for the following applications. The six month period for comment or formal objection will not begin until the full descriptions are finalised and published in the Journal. These varieties have provisional protection under Section 22 of the Plant Variety Rights Act 1987.

SYNGONIUM

Syngonium podophyllum

Applicant: Mr CR Mines, of Pallara, Queensland

'Ultra'

Application No. 92/008 Accepted: 10 February 1992

CANOLA

Brassica napus

Applicant: New South Wales Agriculture, of Orange, New

South Wales

Agent in Australia: Ag-Seed Research Pty Ltd, of Horsham,

Victoria 'Oscar'

Application No. 92/009

Accepted: 4 March 1992

Applicant: Department of Agriculture Western Australia,

of South Perth, Western Australia

Agent in Australia: Ag-Seed Research Pty Ltd, of Horsham,

Victoria

'Narendra' Application No. 92/010

Accepted: 4 March 1992

RYEGRASS

Lolium perenne

Applicant: DSIR Grasslands, of Palmerston North, New

Zealand

Agent in Australia: Mr A Stratton, of Rutherglen Research

Institute, Rutherglen, Victoria

'Grasslands Pacific'

Application No. 92/011 Accepted: 23 March 1992

ROSE

Rosa

Applicant: Eric Welsch Roses, of Erina, New South Wales

'Delicious'

Application No. 92/017 Accepted: 5 March 1992

BARREL MEDIC

Medicago truncatula

Applicant: The Minister for Agriculture, of Adelaide, South

Australia 'Mogul'

Application No. 92/019 Accepted: 23 March 1992

WATTLE

Acacia cognata

Applicant: Tree Planters Nursery, of Springvale South,

Victoria

'Green Mist' Application No. 92/020

Accepted: 18 March 1992

BRACHYSCOME

Brachyscome multifida hybrid

Applicant: Plant Growers Australia Pty Ltd, of Wonga

Park, Victoria 'Pink Haze'

Application No. 92/021 Accepted: 23 March 1992

Applicant: Plant Growers Australia Pty Ltd, of Wonga

Park, Victoria 'Blue Haze'

Application No. 92/022 Accepted: 23 March 1992

Applicant: Plant Growers Australia Pty Ltd, of Wonga

Park, Victoria 'Lemon Drops'

Application No. 92/023

Accepted: 23 March 1992

OAT

Avena sativa

Applicant: Queensland Department of Primary Industries

of Brisbane, Queensland

'Nobby'

Application No. 92/024 Accepted: 19 March 1992

STENANTHIUM

Stenanthium scortechenii

Applicant: Francis David Hocking, of Maleny, Queensland

'White Mischief' Application No. 92/029 Accepted: 24 April 1992

LANTANA

Lantana sellowiana

Applicant: Monrovia Nursery Company, of Azusa,

California USA

Agent in Australia: Colourwise Nursery, of Glenorie, New

South Wales 'Monswee'

Application No. 92/030 Accepted: 24 April 1992

SANVITALIA

Sanvitalia procumbens

Applicant: Mr RW Rother, of Outeniqua Nursery, Emerald,

Victoria

'Pizzaro's Button' commercial synonym 'Stargazer'

Application No. 92/051 Accepted: 1 May 1992

HYDRANGEA

Hydrangea macrophylla

Applicant: InnovaPlant GmbH & Co. KG, of Gensingen,

Germany

Agent in Australia: Roy Rother, of Outeniqua Nursery,

Emerald, Victoria

'Kirsten' commercial synonym 'HOR 4'

Application No. 92/052 Accepted: 4 May 1992

LUCERNE

Medicago sativa

Applicant: Pioneer Hi-Bred International Inc. of Des

Moines, Iowa

Agent in Australia: Pioneer Hi-Bred Australia Pty Ltd, of

Toowoomba, Queensland

'L69' commercial synonym '5715'

Application No. 92/060 Accepted: 1 May 1992

Objections

Formal objections (Section 20 of the PVR Act) to any of the above applications can be lodged by a person who:

- (a) considers their commercial interests would be affected by a grant of PVR to the applicant; and
- (b) considers that the provisions of Section 26 cannot be met.

A fee of \$200 is payable at the time of lodging a formal objection and \$70/hour will be charged if the examination of the objection by the PVR Office takes more than 2 hours.

Comments: Any person not falling into the above category may make comment on the eligibility of any of the above applications for PVR. There is no charge for this.

A person submitting a formal objection or a comment must provide supporting evidence to substantiate the claim. A copy of the submission will also be sent to the applicant.

All formal objections and comments relating to the above applications must be lodged with the Registrar by close of business on **30 DECEMBER 1992**.

Applications Varied

The following submission has been made to vary an application under subsection 19(1) of the Plant Variety Rights Act 1987.

AZALEA

Rhododendron hybrid

Application No. 91/095 (Published in PVJ Vol. 4 No. 4) Applicant: **RJ Cherry** of Paradise Plants, Kulnura, NSW The variety name has been changed from 'Harlequin' to 'Fiesta'.

Corrigenda

PEA

Pisum sativum

'Flinders'

In Vol 4 No 4, December 1991 p21. The applicant's address was not given. The details are:

Applicant: Rogers-NK Seed Co of Boise, Idaho, USA.

LILLY PILLY

Syzygium paniculatum

'Lillyput'

In Vol 5 No 1, March 1992 p25

The botanical name of 'Lillyput' was incorrectly recorded. The correct botanical name is *Syzgium paniculatum*.

BEAN

Phaseolus vulgaris

'Jade

In Vol 5 No 1, March 1992 p25

The applicant's address was incorrectly given. The details are:

Applicant: Rogers-NK Seed Company of Boise, Idaho, USA. Editor's error.

ROSE

Rosa

'Aotearoa' commercial synonym 'Macgenev' In Vol 5 No 1, March 1992 p25 The commercial synonym of 'Aotearoa' was incorrectly recorded. The correct synonym is 'Macgenev'.

PERENNIAL RYEGRASS

Lolium perenne

'Jackaroo'

In Vol 5 No 1, March 1992 p10

The photograph of the electrophoretic gel is mislabelled. A correctly labelled gel is included in the colour section of this journal. See figure 37.

TRITICALE

X Triticosecale

'Abacus'

In Vol. 5 No.2, March 1992, p 17

In the Origin section, replace the 5th sentence with "The resulting primary triticale was topcrossed with T2898(BGL"s"/3/ARS/Mexipak Mut//BGL"s", entry 192 in 10th ITSN) and 'Currency'."

APPENDIX 1

Fees

Basic PVR Fees	\$
Application	400
Examination of application	1400
Certificate of PVR	250
Total Basic Fee	2050
Annual Renewal Fee	250
Other Fees	
Variation to application	70
Copy of application	70
Lodging an objection	200
Copy of objection	70
Compulsory license	140
Transfer of rights	140
Issue of publications	
(first 10 pages, then 50c/page)	8
Back issues of PVJ	8
Other work relevant to PVR(per hour)	70

Payment of Fees

All cheques for fees should be made payable and sent to:

Plant Variety Rights Office DPIE GPO Box 858 Canberra, ACT 2601

The **application fee** (\$400) must accompany the application at the time of lodgement.

The *full* examination fee (\$1400) must be paid before the expiry of the 12th month from the date of acceptance of the application. The PVR Office will routinely invoice the applicant or their agent for the examination fee with the letter of acceptance. This will notify the applicant of their legal liability for the examination fee from the date of acceptance. At the end of the 11th month after acceptance of the application, should the examination fee not have been paid, a final invoice (reminder) will be despatched to the applicant.

Consequences of not paying fees when due

Application fee

Should an application not be accompanied by the prescribed application fee the application will be deemed to be 'non-valid' and neither assigned an application number nor examined for acceptance pending the payment of the fee.

Examination fee

Non-payment of the examination fee before the expiry of 12 months from the date of acceptance of an application will automatically result at the end of 12 months in a refusal of the application. The consequences of refusal are the same as for applications deemed to be inactive (see 'inactive applications' below).

Field examinations and final examinations falling within the first 12 months will not be undertaken without prior payment of the examination fee.

Consideration of a request for an extension of the period of provisional protection from the initial 12 month period requires 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 PVR and issuing the official certificate by the PVR Office. Failure to pay the fee may result in a refusal to grant PVR.

Renewal fee

Should an annual renewal fee not be paid within 30 days after the due date the grant of PVR will be revoked under para. 35 (1) (b) of the Act. To assist grantees the PVR Office will invoice grantees or their Australian agents for renewal fees.

Inactive applications

An application will be deemed inactive if, after 24 months of provisional protection (or 12 months in the case of non-payment of the examination fee) the PVR Office has not received a completed application or has not been advised to proceed with the examination or an extention of provisional protection has not been requested or not granted or a certificate fee has not been paid. Inactive applications will be examined and, should they not fully comply with Section 26 of the PVR Act 1987, they will be refused. As a result provisional protection will lapse, priority claims on that variety will be lost and should the variety have been sold, it will be ineligible for plant variety rights on reapplication. Continued use of labels or any other means to falsely imply that a variety is protected after the application has been refused is an offence under Section 52 (2) (b) of the Act.

APPENDIX 2

Organisations Offering to Undertake PVR Trials

The following organisations are interested in carrying out PVR trials on behalf of applicants—the PVR Office does not accept any responsibility and is publishing the list for the convenience of applicants.

Ian Aberdeen, Valley Sceds Pty Ltd, RMB 1480, Alexandra Vic 3714: 057 976203

Agrisearch, PO Box 972 Orange NSW 2800; 063 624539; M J Hood (also at Shepparton, Moree, Ridgehaven, Mackay, Armidale and Innisfail).

Agritech, PO Box 549 Toowoomba QLD 4350; 076 384322; Mary Ann Law

ANU Plant Culture Facility, Australian National University, GPO Box 4, Canberra ACT 2601; 06 249 4158; Mr A S Carter

Paul Armitage, 2/84 Shady Grove, Forest Hill VIC 3136; (bh) 03 756 7233; (ah) 03 877 6539

Keith Bodman, Redlands Horticultural Research Station, PO Box 327, Cleveland QLD 4163; 07 286 1488

Geoff Butler, Australian Cultivar Registration Authority, National Botanic Gardens, GPO Box 1777, Canberra ACT 2601; 06 267 1802

Chivers Computing & Agriculture, 3/258 Koorang Rd Carnegie VIC 3163; 03 5697538; Ian Chivers.

Colourwise Nursery, PO Box 162, Glenorie, NSW, 2157; ph O45 666 177, fax 045 666 219; Ian Collins

Colourwise Nursery Queensland, PO Box 14, Redlands Bay, QLD 4165; 07 206 8818; Stephen Collins

Jan Dekker, Tesselaar's Padua Bulb Nurseries, Monbulk Road, Silvan VIC 3795; 03 737 9305

Dr. John Doran, CSIRO, Division of Forestry & Forest Products, PO Box 4008, Queen Victoria Terrace, Canberra ACT 2600

John Fennel, Department of Primary Industry Tasmania, PO Box 303, Devonport, TAS 7310; 004 240 233

Flemings Nurseries Pty Ltd, Flemings Lane, Monbulk VIC 3793; 03 7566105; Liz Darmody

Dr Roger Kirkham, Department of Agriculture and Rural Affairs, Potato Research Station Private Bag, Healesville VIC 3630; 059 629218

Graeme McGregor, Department of Agriculture and Rural Affairs, Potato Research Station, Private Bag, Healesville VIC 3630: 059 629218

Dr Geraldine McGuire, PO Box 3230, Loganholme, QLD 4127; 07 801 2929

Dr Neville Mendham, Department of Agricultural Science, University of Tasmania, GPO Box 252C, Hobart TAS 7001; 002 202 598

Murdoch University, School of Horticulture, Murdoch WA 6150; 09 3322810; Prof John Considine.

Navy Bean Marketing Board, PO Box 252, Kingaroy QLD 4610; 071 621408/621666; Mr Kerry Heit.

Paradise Plants, RMB 2117, Kulnura, NSW, 2250; 043 76 1330; Ian Paananen

Plant World Explorations, PO Box 1210, Bowral NSW 2576; 048 61 1934; Dr Maciej Hempel

Phytotech Australia Pty Ltd, 12 Konandon Terrace, Edwardstown, SA 5039; Mr NM Cuthbertson.

Radcliffe and Till, 42 Moss St West Ryde NSW 2114; 02 8046973; Sharon Till.

Dr Malcolm Ryley, QLD Department of Primary Industries, Tor Street, Toowoomba QLD 4350; 076 314200

Robert Boden & Associates, 36 Carstensz Street, Griffith ACT 2603; 06 295 7720; Robert Boden.

Scholefield Robinson Horticultural Services Pty Ltd, PO Box 145, Kingswood, SA 5062; O8 373 2488, or 364 2071; Dr P Scholefield/Dr B Robinson

Australian Turf Grass Research Institute, PO Box 190 Concord West NSW 2138; O2 7361233; Ian McIver/Alexandra Shakesby.

Turfgrass Technology, PO Box 416 Seaford VIC 3198; 03 786 3300; Terry Woodcock, Michael Rubinson, J Neylan.

University of Western Sydney, Hawkesbury, Bourke St, Richmond NSW 2753; 045 701333; Robert Spooner-Hart.

Rob Van Der Staay, PO Box 41, Moonah TAS 7009; 002 284 622

Jim Webb, 86 Johnson Street, Wagga Wagga NSW 2650.

State Departments of Agriculture and CSIRO may do trials on a fee for service basis for some varieties.

Overseas

Genesis, Corporate Marketing Consultancy, 6 New Rd, North Runcton, Kings Lynnn, Norfolk, United Kingdom, ph. 00553 84 1977, fax: 0553 84 0996; PM Dealtrey.

GPL International, Lavsenvaenget 18 (Postbox 29) DK Odense V Denmark: J H Selchau

M. Rene Royon, Conceil en Licences, 128 Les Bois de Font Merle, 06250, Mougins, France.

Photographic Services

Avon Colour Studio, Clegg Rd, Mt Evelyn, Victoria 3796; 03 736 2715; Ron Moodycliffe

Hugh Elgar & Margie Bond, Uki Photography, 7 Sunrise Place, Uki via Murwillumbah NSW 2484

Electrophoretic Identification/Authentication

Institute of Plant Sciences, The Manager, Seed Services, Dept of Agriculture, Burnley Gardens, Swan St, Burnley Vic 3121; Mr Alan Williams 03 810 1570

APPENDIX 3

PLANT VARIETY RIGHTS ADVISORY COMMITTEE (PVRAC)

(Members of the PVRAC were appointed in accordance with S45 of the Plant Variety Rights Act 1987).

Dr Mick Lloyd (Chair) Registrar Plant Variety Rights GPO Box 858 CANBERRA ACT 2601

Dr Robert Boden

Consultant in Conservation & Natural Research Management 36 Carstensz St

GRIFFITH ACT 2603

Representative with appropriate qualifications and experience.

Dr Kevin Boyce Principal Officer, Seed Services Plant Services Division South Australian Department of Agriculture GPO Box 1671 ADELAIDE SA 5001 Representative of breeders.

Mr Rodney Field WMR Box 758 ESPERANCE WA 6450 Representative with appropriate qualifications and experience.

Dr David Godden
Department of Agricultural Economics
University of Sydney
NSW 2006
Representative of consumers.

Dr Brian Hare Director of Research Pacific Seeds PO Box 337 TOOWOOMBA QLD 4350 Representative of breeders.

Mr Edgar (Ben) Swane Director Swane Bros P/L Galston Road DURAL NSW 2158 Representative of producers.

APPENDIX 4 LETTERS TO THE EDITOR

The editor of the Plant Varieties Journal will accept for publication, 'letters to the editor'.

Letter to the editor should aim to inform readers about plant varieties. The subject matter can be about breeding, genetics, new propagation methods, results of cultivar trials, trends in the market place, legal issues or injustices caused by PVR.

Readers are encouraged to continue to write letters to the Registrar on any matter concerning PVR. Letters to the Registrar in the normal course of office business would, of course, not be considered for publication in the Journal. Letters to the editor should be, therefore, clearly addressed to 'The Editor'.

Provision of information about plant varieties in general will be complementary to the Journal's main functions of:

- informing the public about plant variety rights and new plant varieties in the PVR scheme
- providing an opportunity for both objections and comments about varieties for which rights have been applied.

Style and length of letters to the editor

Letters should be typewritten, double-spaced, concise, informative and not more than than 1000 words in length. References should use the Oxford (number) system of citations to literature. Figures, tables and captions to figures and tables should all be provided on separate sheets. The list of references to publications cited in the text should be numbered in the order they appear in the text. Only the name of the author, initials, date and abbreviated journal title, volume no., issue and first page of article referred to should be given in the reference list. For example:

1. Smith, JT (1986). Pl Var. J. 3(2): 23

For convenience, letters for publication may be submitted on disc. The preferred format is Microsoft Word for Windows.





COMMONWEALTH DEPARTMENT OF PRIMARY INDUSTRIES AND ENERGY

Plant Breeders

- Seed Companies
- **Nurseries**
- Importers

Do you want exclusive rights tearlety market your new plant variety

Contact: The Registrar
PVR Office, DPIE
GPO Box 858 Canberra ACT 260
Telephone: (06) 272 4228
Facsimile: (06) 272 3650

PRINTED BY UNION OFFSET CO. PTY LTD, CANBERRA