



Plant Varieties Journal

Quarter Two 1996

Volume 9

Number 2



Official Journal of Plant Breeders Rights Australia

ADVERTISE YOUR NEW VARIETY OR SERVICES IN THE

Plant Varieties Journal

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

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

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SUBSCRIPTION ENQUIRIES AND ADVERTISING
SHOULD BE ADDRESSED TO:

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

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Part 1 - General Information

Objections

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

- a) considers their commercial interests would be affected by a grant of PBR to the applicant; **and**
- b) considers that the applicant will not be able to fulfill all the conditions for the grant of PBR to the variety.

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

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

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

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

Applying For Plant Breeders Rights

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

Requirement to Supply Comparative Varieties

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

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

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

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

Instructions to Authors

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

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

Important Changes

Overseas Test Reports

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

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

Starting from 1 July 1996, the PBR office will not be responsible for obtaining overseas DUS test reports on

behalf of applicants. *It will be the sole responsibility of the applicants or their agents to obtain these reports.* Where applicants already have reports they are advised to submit a certified true copy of the report with the application.

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

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

Further information is available from the PBR office.

Part 2 - Public Notices

Varieties Included in this Issue

	Variety	Page Number		Variety	Page Number	
Alstroemeria	'Aruba' ϕ	60	Canna	'Phasion'	16	
	'Java' ϕ	60		Canola	'Oscar' ϕ	60
Apple	'Co-op 23'	63	Cape Daisy		'TI 10'	6
	'Galaxy' ϕ	60		'Kwazulu'	6	
	'Jonagored'	10		'Sunny Gustaf'	6	
	'SA244-20'	11		'Sunny Lady'	6	
	'SA251-18'	11		'Swazi'	6	
	'Summertime' ϕ	60		'Volta'	6	
	'Tigriss'	5		'Zimba'	6	
Aster	'Blue Butterfly'	62	Christmas Cactus	'St. Charles'	6	
	'Pink Butterfly'	62	Citrus	'Tsunokaori'	17	
	'Rose Butterfly'	62	Clematis	'Jenny Keay'	6	
	'White Butterfly'	62	Cotton	'Southern Cross'	18	
Australian Willow Myrtle	'Southern Wonder'	5		'Sicot 189'	6, 18	
	'Aquarell'	5		'Siokra S-101'	6, 19	
Azalea	'Beenak'	5	Cotton Lavender	'Lemon Fizz'	19	
	'Cencerre'	5		Couch Grass	'Riley's Super Sport'	20
	'Dyana'	5	Dianthus	'Crossover'	21	
	'Lumeha'	5	Diascia	'Far Out'	21	
	'Paradise Christine'	12		'Raspberry Sundae'	6	
	'Paradise Louise'	13		Digitaria	'Strickland' ϕ	60
	'Potpurri'	5		Dipladenia	'Beauty Queen'	21
	Baby's Breath	'Dangyhappy'	5		'Magic Dream'	22
		'Magic Arbel'	5	Eucalypt	'Pale Face'	23
		'Magic Tavor' 5	5			'Ruby Star'
Barley	'86045 B'	5			'White Delite'	6
	'Chieftain'	13	Fig		'Summer Beauty'	63
'Dash'	14	Gaura		'Curly'	62	
'Empress'	14			'Corrie's Gold' ϕ	60	
'Monarch'	15	Grape	'Jo Adela' ϕ	60		
Biserrula	'Casbah'		5		'HBS 17-35'	7
	Brachyscome	'Sunburst' ϕ	60	Grevillea	'Landcare'	23
Callistemon		'Great Balls of Fire'	62		Hardenbergia	'Purple Falls' ϕ
	Camellia	'Marge Miller' ϕ	60	Hybrid Ryegrass		'Maverick Gold'
'Sweet Jane'		6	Impatiens		'Celebration Bright Coral' ϕ	60
					'Celebration Cherry Star' ϕ	60
				'Celebration Hot Pink' ϕ	60	
				'Celebration Pure White' ϕ	60	
				'Celebration Salmon' ϕ	60	
				'Golden Anniversary'	25	
				'Golden Girl'	25	
				'Golden Surprise' ϕ	60	
				'Yuletide'	62	
				Japanese Plum	'Pizazz'	62
					Kangaroo Grass	'Mingo'
						'Tantangara'
				Kangaroo Paw	'Bush Ember' ϕ	61
					'Bush Heritage' ϕ	61
					'Bush Ochre' ϕ	61
					'Bush Splendour' ϕ	61
					'Bush Twilight' ϕ	61
					'Sunglow'	26
					Kura Clover	'Endura' ϕ
				Lantana		'Malans Gold'
				Lavender	'Henri Dunant' ϕ	61
					Lilly Pilly	'Hedgemaster'
					'Undercover'	62
				Lily	'Acapulco'	7
					'Nippon'	7

Lophostemon	'Billy Bunter'	62		'Devtinta' ϕ	62
Lucerne	'CRLU4'	7		'Frystar' ϕ	62
	'Sequel HR' ('Encore')	62		'Frytranquil' ϕ	62
	'Genesis'	7		'Frytrooper' ϕ	62
	'Grasslands Kaituna'	7		'Kooiana Butterscotch' ϕ	62
Lupin	'83A:455' ('Boongul')	62		'Kooiana Moonlight' ϕ	62
Marguerite Daisy	'Carmella'	7, 28		'Kooiana Watermelon' ϕ	62
	'Gretel'	30		'Interdust'	8
	'Primrose'	30		'Intersept'	40
	'Sugar and Ice'	30		'Jaccofil'	8
	'Sugar Baby' ϕ	61		'Jacnor'	8
	'Summer Angel' ϕ	61		'Jactou'	8
	'Summer Pink' ϕ	61		'Jumpin' Jack'	8
	'Surprise Party' ϕ	61		'Keijourna'	63
Mirror Plant	'Rainbow Surprise'	31		'Korazerka'	8
Mitchell Grass	'Turanti'	7		'Korbasren'	8
	'Yanda'	7		'Korfeimot'	8
Muntries	'Rivoli Bay'	7		'Korfischer'	8
Nectarine	'April Glo'	32		'Korlis'	8
	'Earliglo'	32		'Kormarec'	8
	'Royal Glo'	33		'Kormiller'	8
Oat	'Condamine'	63		'Korplasma'	9
	'Euro' ϕ	61		'Kortanken'	9
Ornithopus	'Santorini'	7		'Korverpea'	9
Pandorea	'Southern Belle'	34		'Lavdoll'	40
Peace Lilly	'Metalica'	34		'Lily Freeman'	9
	'Tamborine Gold'	62		'Macoranlem'	9
Peach	'June Crest' ϕ	61		'Meibonrib'	9
	'Melodie'	63		'Meizaipur'	63
	'Rich May'	35		'NOAfeuer'	9
	'Tasty Zee' ϕ	61		'Noamel'	41
	'Tucker's'	7		'Pink Kardinal' ϕ	62
	'Zee Lady' ϕ	61		'Ruialex'	42
Pear	'Taylors Gold'	7		'Ruicharm'	42
Pearl Millet	'Siromill' ϕ	61		'Ruichris'	43
Perennial Ryegrass	'Victoca'	7		'Ruidiggel'	44
Petunia	'Desert Light'	36		'Ruifire'	44
	'Dusky Light'	36		'Ruigal'	45
	'Hush White'	36, 63		'Ruijoho'	9
	'Magenta Light'	37		'Ruipipi'	46
	'Mauve Light'	37		'Ruirodella'	46
	'Pink Light'	38		'Seajulc'	9
	'Tiger Light'	38		'Schobitet'	63
Plantain	'Ceres Tonic'	39		'Smooth Melody' ϕ	62
	'Grasslands Lancelot'	39		'Smooth Perfume' ϕ	62
Potato	'Heather'	8		'Smooth Prince' ϕ	62
	'Panda'	62		'Spekes'	9
	'St. Johns'	8		'Spekra'	9
Pumpkin	'Loana 52'	63		'Suntick' ϕ	62
Quandong	'Frahn's Paringa Gem'	8		'Victoria Gold'	47, 62
Rose	'Ausbord' ϕ	61		'Wekjoe'	9
	'Ausgold'	8		'Welpink'	47
	'Auslevel'	8		'Welred'	48
	'Auspale'	8		'Woman's Day' ϕ	62
	'CE/500'	8		'White Cascades'	49
	'Chameleon' ϕ	61	Scholtzia	'Southern Ocean'	9
	'Delicious' ϕ	61	Sea Parsley	'Aussie Green N Gold'	9
	'Devilk' ϕ	61	Shore Juniper	'Kosciusko'	9
	'Devnovia' ϕ	62	Slender Mint	'Herald'	49
	'Devrise' ϕ	62	Strand Medic		

Strawberry	'Fern'	63
	'Kabarla' ϕ	62
	'Santana'	63
Strawberry Clover	'Grasslands Onward'	50
Subterranean Clover	'Riverina'	63
Sunflower	'Daniel'	50
Sutera	'Pink Domino'	63
Tall Fescue	'Bombina'	52
	'Midwin'	52
Verbena	'Pink Profusion'	63
	'Blondie'	54
	'Cascade Brook'	52
Waxflower	'Madonna'	56
	'Painted Lady'	57
	'Revelation'	58
Weeping Fig	'Curly'	62
Wheat	'Paterson'	59
	'Pelsart'	63
	'Sunbrook'	9
	'Sunland'	9
	'Sunvale'	9
	'VF 508*25'	10
	'VF 664'	10
	'Yanac'	10
White Clover	'Clever Club'	63

ACCEPTANCES

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

APPLE

Malus domestica

'Tigress'

Application No: 96/107 Accepted: 30 May 1996.
Applicant: **A G & H C Mason**, Forest Range, SA.
Agent: **Fleming's Nurseries & Associates Pty Ltd**, Monbulk, VIC.

AUSTRALIAN WILLOW MYRTLE

Agonis flexuosa

'Southern Wonder'

Application No: 96/090 Accepted: 23 Apr 1996.
Applicant: **B E Jackson**, Keysborough, VIC.

AZALEA

Rhododendron simsii

'Aquarell'

Application No: 96/048 Accepted: 29 Mar 1996
Applicant: **Marlies u. Hanno Baetche von Gartnerei**, Issum, Germany.
Agent: **John Slykerman**, Monbulk, VIC.

'Beenak'

Application No: 95/305 Accepted: 1 Apr 1996.
Applicant: **L J van der Meer BV**, Roelofarendsveen, The Netherlands.
Agent: **John Slykerman**, Monbulk, VIC.

'Cencerre'

Application No: 95/306 Accepted: 1 Apr 1996.
Applicant: **L J van der Meer BV**, Roelofarendsveen, The Netherlands.
Agent: **John Slykerman**, Monbulk, VIC.

'Dyana'

Application No: 95/308 Accepted: 4 Apr 1996.
Applicant: **John Slykerman**, Monbulk, VIC.

'Lumeha'

Application No: 96/049 Accepted: 29 Mar 1996.
Applicant: **John Slykerman**, Monbulk, VIC.

'Potpurri'

Application No: 95/307 Accepted: 1 Apr 1996.
Applicant: **L J van der Meer BV**, Roelofarendsveen, The Netherlands.
Agent: **John Slykerman**, Monbulk, VIC.

BABY'S BREATH

Gypsophila paniculata

'Dangyhappy' syn 'Happy Festival'

Application No: 96/102 Accepted: 24 May 1996.
Applicant: **Danziger- 'Dan' Flower Farm**, Israel.
Agent: **Burbank Biotechnology Pty Ltd**, Tuggerah, NSW.

'Magic Arbel'

Application No: 96/104 Accepted: 24 May 1996.
Applicant: **Danziger- 'Dan' Flower Farm**, Israel.
Agent: **Burbank Biotechnology Pty Ltd**, Tuggerah, NSW.

'Magic Tavor'

Application No: 96/103 Accepted: 24 May 1996.
Applicant: **Danziger- 'Dan' Flower Farm**, Israel.
Agent: **Burbank Biotechnology Pty Ltd**, Tuggerah, NSW.

BARLEY

Hordeum vulgare

'86045 B'

Application No: 96/075 Accepted: 16 Apr 1996.
Applicant: **Agriculture Victoria, Victorian Institute for Dryland Agriculture**, Horsham, VIC.

BISERRULA

Biserrula pelecinus

'Casbah' syn 'MOR99'

Application No: 96/120 Accepted: 25 Jun 1996.
Applicant: **Co-operative Research Centre for Legumes in Mediterranean Agriculture**, Nedlands, WA.

CAMELLIA
Camellia hybrid

'Sweet Jane'

Application No: 96/119 Accepted: 6 Jun 1996.
Applicant: **Claude Ray Garnett**, Beaumaris, VIC.

CANOLA
Brassica napus

'TI 10'

Application No: 96/073 Accepted: 12 Apr 1996.
Applicant: **Daratech Pty Ltd**, Melbourne, VIC.
Agent: **Ag-Seed Research Pty Ltd**, Horsham, VIC.

CAPE DAISY
Osteospermum ecklonis

'Kwazulu'

Application No: 96/051 Accepted: 4 Jun 1996.
Applicant: **Carl Auser Kragh Sorensen**, Aabyhoy, Denmark.
Agent: **Redlands Greenhouses Holdings Pty Ltd**, Redland Bay, QLD.

'Sunny Gustaf'

Application No: 96/055 Accepted: 4 Apr 1996.
Applicant: **Bjarne Larsen & Niels Larsen**, Odense, Denmark.
Agent: **Redlands Greenhouses Holdings Pty Ltd**, Redland Bay, QLD.

'Sunny Lady'

Application No: 96/053 Accepted: 4 Apr 1996.
Applicant: **Bjarne Larsen & Niels Larsen**, Odense, Denmark.
Agent: **Redlands Greenhouses Holdings Pty Ltd**, Redland Bay, QLD.

'Swazi'

Application No: 96/054 Accepted: 4 Apr 1996.
Applicant: **Carl Auser Kragh Sorensen**, Aabyhoy, Denmark.
Agent: **Redlands Greenhouses Holdings Pty Ltd**, Redland Bay, QLD.

'Volta'

Application No: 96/052 Accepted: 4 Apr 1996.
Applicant: **Carl Auser Kragh Sorensen**, Aabyhoy, Denmark.
Agent: **Redlands Greenhouses Holdings Pty Ltd**, Redland Bay, QLD.

'Zimba'

Application No: 96/050 Accepted: 4 Apr 1996.

Applicant: **Carl Auser Kragh Sorensen**, Aabyhoy, Denmark.
Agent: **Redlands Greenhouses Holdings Pty Ltd**, Redland Bay, QLD.

CHRISTMAS CACTUS
Schlumbergera truncatus

'St. Charles'

Application No: 96/034 Accepted: 16 Apr 1996
Applicant: **B L Cobia Inc**, Florida, USA
Agent: **Brindley's Nurseries**, Coffs Harbour, NSW.

CLEMATIS
Clematis montana

'Jenny Keay'

Application No: 96/056 Accepted: 1 May 1996.
Applicant: **M L Jerard & Co Ltd**, Christchurch, New Zealand.
Agent: **Drew Phillips**, Silvan, VIC.

COTTON
Gossypium hirsutum

'Sicot 189'

Application No: 96/088 Accepted: 22 Apr 1996.
Applicant: **CSIRO Division of Plant Industry**, Narrabri, NSW.

'Siokra S-101'

Application No: 96/089 Accepted: 22 Apr 1996.
Applicant: **CSIRO Division of Plant Industry**, Narrabri, NSW.

DIASCIA
Diascia barberae

'Raspberry Sundae'

Application No: 96/074 Accepted: 18 Apr 1996.
Applicant: **Protected Plant Promotions and The University of Sydney, Plant Breeding Institute**, Cobbitty, NSW.
Agent: **The University of Sydney, Plant Breeding Institute**, Cobbitty, NSW.

DIPLADENIA
Mandevilla (syn Dipladenia) x amabilis

'Ruby Star'

Application No: 96/072 Accepted: 12 Apr 1996.
Applicant: **Gem Ornamentals**, Florida, USA.
Agent: **Wholesale Ornamental Nurserymen Pty Ltd**, Capalaba, QLD.

'White Delite'

Application No: 96/071 Accepted: 12 Apr 1996.
Applicant: **Gem Ornamentals**, Florida, USA.
Agent: **Wholesale Ornamental Nurserymen Pty Ltd**, Capalaba, QLD.

GRAPE
*Vitis vinifera***'HBS 17-35'** syn **'Stanley Seedless'**

Application No: 96/046 Accepted: 1 Apr 1996.
Applicant: **Andriske (Paringi) Nominees Pty Ltd**, Gol Gol, NSW.

KANGAROO GRASS
*Themeda triandra***'Mingo'**

Application No: 96/092 Accepted: 16 May 1996.
Applicant: **Patrick Brian Quinn**, Newham, VIC.

'Tantangara'

Application No: 96/099 Accepted: 5 Jun 1996.
Applicant: **CSIRO Division of Plant Industry**, Canberra, ACT.

LILY
*Lilium hybrid***'Acapulco'**

Application No: 95/310 Accepted: 1 Apr 1996.
Applicant: **Vletter & Den Haan Beheer BV**, Rijnsburg, The Netherlands.
Agent: **Kenny Lane Bulbs Pty Ltd**, Monbulk, VIC.

'Nippon'

Application No: 95/309 Accepted: 1 Apr 1996.
Applicant: **Vletter & Den Haan Beheer BV**, Rijnsburg, The Netherlands.
Agent: **Kenny Lane Bulbs Pty Ltd**, Monbulk, VIC.

LUCERNE
*Medicago sativa***'CRLU4'**

Application No: 96/036 Accepted: 28 May 1996.
Applicant: **New Zealand Pastoral Agriculture Research Institute Ltd**, Palmerston North, New Zealand.
Agent: **AgResearch Grasslands**, Albury, NSW.

'Genesis' syn **'Y8506'**

Application No: 96/091 Accepted: 24 Apr 1996.
Applicant: **NSW Department of Agriculture**, Orange, NSW.
Agent: **South Australian Seedgrowers Cooperative**, Hilton, SA..

'Grasslands Kaituna'

Application No: 96/037 Accepted: 28 May 1996
Applicant: **New Zealand Pastoral Agriculture Research Institute Ltd**, Palmerston North, New Zealand.
Agent: **AgResearch Grasslands**, Albury, NSW.

MARGUERITE DAISY
*Argyranthemum frutescens***'Carmella'** syn **'M2/20'**

Application No: 96/042 Accepted: 16 Apr 1996.
Applicant: **Frank Hammond**, Narre Warren East, VIC.

MITCHELL GRASS
*Astrebula sp***'Turanti'** syn **'64A'**

Application No: 96/100 Accepted: 22 May 1996.
Applicant: **NSW Agriculture**, Orange, NSW.

'Yanda' syn **'104C'**

Application No: 96/101 Accepted: 22 May 1996.
Applicant: **NSW Agriculture**, Orange, NSW.

MUNTRIES
*Kunzea pomifera***'Rivoli Bay'**

Application No: 96/031 Accepted: 27 May 1996.
Applicant: **Australian Native Produce Industries Pty Ltd**, Paringa, SA.

ORNITHOPUS
*Ornithopus compressus***'Santorini'** syn **'87GEH76C'**

Application No: 96/047 Accepted: 28 Mar 1996.
Applicant: **Chief Executive Officer of Agriculture Western Australia**, South Perth, WA.

PEACH
*Prunus persica***'Tucker's'** syn **'Tucker's Autumn Blush'**

Application No: 96/109 Accepted: 19 Jun 1996.
Applicant: **Joseph H. Tucker**, California, USA.
Agent: **Breeders' Rights International Pty Ltd**, Moorooduc, VIC.

PEAR
*Pyrus communis***'Taylors Gold'**

Application No: 96/108 Accepted: 30 May 1996.
Applicant: **Michael Bede King Turner & Wendy May King Turner**, Nelson, New Zealand.
Agent: **Fleming's Nurseries & Associates Pty Ltd**, Monbulk, VIC.

PERENNIAL RYEGRASS
*Lolium perenne***'Victoca'**

Application No: 96/057 Accepted: 10 Apr 1996.
Applicant: **Department of Primary Industries and Fisheries**, Kings Meadow, TAS.

POTATO
Solanum tuberosum

'Heather'

Application No: 95/190 Accepted: 16 Apr 1996.
Applicant: **Caithness Potato Breeders Ltd**, London, UK.
Agent: **Bindaree Downs Seed Potato Growers**, Cuthbert, WA.

'St. Johns'

Application No: 96/039 Accepted: 27 Mar 1996.
Applicant: **Hettema Zonen Kweekbedrijf BV**, Emmeloord, The Netherlands.
Agent: **Department of Primary Industry and Fisheries**, Devonport, TAS.

QUANDONG
Santalum acuminatum

'Frahns Paringa Gem'

Application No: 96/028 Accepted: 27 May 1996.
Applicant: **Andrew Beal and Anthony Sharley**, Paringa, SA.

ROSE
Rosa

'Ausgold' syn 'Golden Celebration'

Application No: 96/061 Accepted: 2 May 1996.
Applicant: **David Austin Roses**, Wolverhampton, UK.
Agent: **The Perfumed Garden**, Moorooduc, VIC.

'Auslevel' syn 'Glamis Castle'

Application No: 96/062 Accepted: 2 May 1996.
Applicant: **David Austin Roses**, Wolverhampton, UK.
Agent: **The Perfumed Garden**, Moorooduc, VIC.

'Auspale' syn 'Redoute'

Application No: 96/063 Accepted: 2 May 1996.
Applicant: **David Austin Roses**, Wolverhampton, UK.
Agent: **The Perfumed Garden**, Moorooduc, VIC.

'CE/500'

Application No: 96/121 Accepted: 25 Jun 1996.
Applicant: **Lilia Weatherly**, Austins Ferry, TAS.

'Interdust'

Application No: 96/105 Accepted: 17 Jun 1996.
Applicant: **Interplant B.V.**, Leersum, The Netherlands.
Agent: **Grandiflora Nurseries Pty Ltd**, Cranbourne, VIC.

'Jaccoff' syn 'Brass Band'

Application No: 96/069 Accepted: 1 May 1996.
Applicant: **Bear Creek Gardens Inc**, Delaware, USA.
Agent: **Swane Bros Pty Ltd**, Narromine, NSW.

'Jacnor' syn 'Signature'

Application No: 96/068 Accepted: 1 May 1996.
Applicant: **Jackson and Perkins Roses**, California, USA.
Agent: **Swane Bros Pty Ltd**, Narromine, NSW.

'Jactou' syn 'Midas Touch'

Application No: 96/065 Accepted: 1 May 1996.
Applicant: **Bear Creek Gardens Inc**, Delaware, USA.
Agent: **Swane Bros Pty Ltd**, Narromine, NSW.

'Jumpin' Jack' syn 'Jacpat'

Application No: 96/067 Accepted: 1 May 1996.
Applicant: **Jackson and Perkins Roses**, California, USA.
Agent: **Swane Bros Pty Ltd**, Narromine, NSW.

'Korazerka' syn 'Ekstase'

Application No: 96/078 Accepted: 17 Apr 1996.
Applicant: **Wilhelm Kordes**, Klein Offenseth-Sparrieshoop, Germany.
Agent: **Treloar Roses Pty Ltd**, Portland, VIC.

'Korbassen' syn 'Pink Bassino'

Application No: 96/087 Accepted: 19 Apr 1996.
Applicant: **Wilhelm Kordes**, Klein Offenseth-Sparrieshoop, Germany.
Agent: **Treloar Roses Pty Ltd**, Portland, VIC.

'Korfeimot' syn 'Grafin Sonja'

Application No: 96/083 Accepted: 19 Apr 1996.
Applicant: **Wilhelm Kordes**, Klein Offenseth-Sparrieshoop, Germany.
Agent: **Treloar Roses Pty Ltd**, Portland, VIC.

'Korfischer' syn 'Hansa-Park'

Application No: 96/085 Accepted: 19 Apr 1996.
Applicant: **Wilhelm Kordes**, Klein Offenseth-Sparrieshoop, Germany.
Agent: **Treloar Roses Pty Ltd**, Portland, VIC.

'Korlis' syn 'Eliza'

Application No: 96/077 Accepted: 17 Apr 1996.
Applicant: **Wilhelm Kordes**, Klein Offenseth-Sparrieshoop, Germany.
Agent: **Treloar Roses Pty Ltd**, Portland, VIC.

'Kormarec' syn 'Sommerabend'

Application No: 96/086 Accepted: 19 Apr 1996.
Applicant: **Wilhelm Kordes**, Klein Offenseth-Sparrieshoop, Germany.
Agent: **Treloar Roses Pty Ltd**, Portland, VIC.

'Kormiller' syn 'Dream'

Application No: 96/076 Accepted: 17 Apr 1996.
Applicant: **Wilhelm Kordes**, Klein Offenseth-Sparrieshoop, Germany.
Agent: **Treloar Roses Pty Ltd**, Portland, VIC.



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'Korplasina' syn 'Our Vanilla'

Application No: 96/081 Accepted: 29 Apr 1996.
 Applicant: **Wilhelm Kordes**, Klein Offenseth-Sparrieshoop, Germany.
 Agent: **Treloar Roses Pty Ltd**, Portland, VIC.

'Kortanken' syn 'Domstadt Fulda'

Application No: 96/082 Accepted: 19 Apr 1996.
 Applicant: **Wilhelm Kordes**, Klein Offenseth-Sparrieshoop, Germany.
 Agent: **Treloar Roses Pty Ltd**, Portland, VIC.

'Korverpea' syn 'Kleopatra'

Application No: 96/084 Accepted: 19 Apr 1996.
 Applicant: **Wilhelm Kordes**, Klein Offenseth-Sparrieshoop, Germany.
 Agent: **Treloar Roses Pty Ltd**, Portland, VIC.

'Lily Freeman' syn 'Huxl 1'

Application No: 96/064 Accepted: 11 Apr 1996.
 Applicant: **Ian Huxley**, Guildford, VIC.

'Macoranlem' syn 'Oranges and Lemons'

Application No: 96/066 Accepted: 1 May 1996.
 Applicant: **Sam McGredy Roses International**, Auckland, New Zealand.
 Agent: **Swane Bros Pty Ltd**, Narromine, NSW.

'Meibonrib' syn 'Magic Meidiland'

Application No: 96/093 Accepted: 24 Apr 1996.
 Applicant: **Meilland International**, Le Luc en Provence, France.
 Agent: **Ross Roses**, Willunga, SA.

'NOAfeuer' syn 'Red Noack Groundcover'

Application No: 96/014 Accepted: 24 Jun 1996.
 Applicant: **Werner Noack**, Gutersloh, Germany.
 Agent: **Flower Carpet Pty Ltd**, Silvan VIC.

'Ruijoho' syn 'Sunny Prophtya'

Application No: 96/106 Accepted: 17 Jun 1996.
 Applicant: **De Ruiter's Nieuwe Rozen B.V.**, Hazerswoude, The Netherlands.
 Agent: **Grandiflora Nurseries Pty Ltd**, Cranbourne, VIC.

'Seajulc' syn 'Climbing Julia's'

Application No: 96/044 Accepted: 6 May 1996
 Applicant: **Marion Seal**, Burton, SA

'Spekes' syn 'Our Sacha'

Application No: 96/080 Accepted: 29 Apr 1996.
 Applicant: **Wilhelm Kordes**, Klein Offenseth-Sparrieshoop, Germany.
 Agent: **Treloar Roses Pty Ltd**, Portland, VIC.

'Spekra' syn 'Our Rodeo'

Application No: 96/079 Accepted: 29 Apr 1996.
 Applicant: **Wilhelm Kordes**, Klein Offenseth-Sparrieshoop, Germany.
 Agent: **Treloar Roses Pty Ltd**, Portland, VIC.

'Wekjoe' syn 'Lynn Anderson'

Application No: 96/070 Accepted: 1 May 1996.
 Applicant: **Week's Roses**, California, USA.
 Agent: **Swane Bros Pty Ltd**, Narromine, NSW.

SEA PARSLEY
Apium prostratum

'Southern Ocean'

Application No: 96/029 Accepted: 27 May 1996.
 Applicant: **Australian Native Produce Industries Pty Ltd**, Paringa, SA.

SHORE JUNIPER
Juniperus conferta

'Aussie Green N Gold'

Application No: 96/095 Accepted: 19 Jun 1996.
 Applicant: **Plantnet Pty Ltd**, Mulgoa, NSW and **Sagacrest Pty Ltd**, Pheasants Nest, NSW.
 Agent: **Plants Management Australia Pty Ltd**, Warragul, VIC.

SLENDER MINT
Mentha diemenica

'Kosciusko'

Application No: 96/030 Accepted: 27 May 1996.
 Applicant: **Australian Native Produce Industries Pty Ltd**, Paringa, SA.

WHEAT
Triticum aestivum

'Sunbrook' syn 'Sun 224A'

Application No: 96/058 Accepted: 30 May 1996.
 Applicant: **The University of Sydney, Plant Breeding Institute, I A Watson Wheat Research Centre**, Narrabri, NSW.

'Sunland' syn 'Sun 155C'

Application No: 96/060 Accepted: 30 May 1996.
 Applicant: **The University of Sydney, Plant Breeding Institute, I A Watson Wheat Research Centre**, Narrabri, NSW.

'Sunvale' syn 'Sun 146F'

Application No: 96/059 Accepted: 30 May 1996.
 Applicant: **The University of Sydney, Plant Breeding Institute, I A Watson Wheat Research Centre**, Narrabri, NSW.

'VF 508*25' syn 'VF 508'

Application No: 96/097 Accepted: 16 May 1996.

Applicant: **Agriculture Victoria, Victorian Institute for Dryland Agriculture, Horsham, VIC.****'VF 664'**

Application No: 96/098 Accepted: 16 May 1996.

Applicant: **Agriculture Victoria, Victorian Institute for Dryland Agriculture, Horsham, VIC.****'Yanac' syn 'VF 302'**

Application No: 96/096 Accepted: 16 May 1996.

Applicant: **Agriculture Victoria, Victorian Institute for Dryland Agriculture, Horsham, VIC.**

DESCRIPTIONS

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

*	=	variety(s) used as comparator(s)
Agent	=	Australian agent representing an application lodged from overseas
DUS	=	Distinctiveness, Uniformity and Stability
LSD	=	Least Significant Difference
LSD/sig	=	The numerical value for the LSD (at P0.01) is in the first column and the level of significance between the candidate and the relevant comparator in subsequent columns
ns	=	not significant
RHS	=	Royal Horticultural Society Colour Chart (Chip Number)
std deviation	=	Standard deviation of the sample
syn	=	synonym
UPOV	=	International Union for the Protection of New Plant Varieties
+	=	When used in conjunction with an RHS colour, '+' indicates a notional extension of a colour series when a precise match can not be made. It is most commonly used when the adjacent colour chip(s) are of a different sequence
#	=	Values followed by the same letter are not significantly different at P0.01
Origin	=	unless otherwise stated the female parent of the cross precedes the male parent
⊙	=	variety(s) for which PBR has been granted

APPLE*Malus domestica***'Jonagored' syn 'Morren's Jonagored'**

Application No: 89/013 Accepted: 9 Mar 1989.

Applicant: **NV Jomobel, Bosstraat 9, Belgium.**Agent: **Callinan Lawrie, Kew, VIC.**

Description (Table 1, Figure 46) Plant: trunk thickness medium, vigour medium. Stem: lenticel size medium. Leaf: length and breadth medium, upper side very glossy, pubescence moderate lower side, concave, margin irregular biserrate, petiole short. Flower: adpressed with moderate support, cupped-shape, appearing mid-season; petals free, size medium, pink; buds conical-shaped with rounded tips. Fruit: size medium-large, asymmetric, round-conical shape, maturity late; surface bumpy, ribbing present but not prominent; crowning weak, basin deep and broad with large eye, aperture half open, sepals long, freely spaced; stalk long, medium thickness, cavity deep, width medium; skin moderately thick, green-yellow ground-colour with at least 75% purple overcolour, half flushed, half striped; flesh moderately firm, cream, of medium texture, juicy, moderately sweet, acidic, weak browning; calyx tube U-V shaped, medium length and width; core-line moderately distinct. Seed: size medium, colour brown.

Origin Sport mutation: 'Jonagold', 1981. Breeder: Jos Morren de Coster, Halen, Belgium. Selection criteria: large red fruit, earlier maturity than 'Jonagold', more intensively coloured fruit, better keeping if picked at the right time. Propagation: cuttings from the sport, scionwood grafted onto apple rootstock through 5 generations.

Comparative Trials Comparators: 'Jonagold' in United Kingdom trial. The Qualified Person considers 'New Jonagold' and 'Crown Gold' to be the closest known comparators in Australia. 'Jonagored' is distinctive from any known cultivar in Australia. Location: National Fruit Trial, United Kingdom, 1984 - 1985. Trials have also been conducted in Belgium, Netherlands, Denmark, West Germany, France, Switzerland, USA and Italy. Conditions: Trials conducted according to UPOV technical guidelines.

Prior Applications and Sales

Country	Year	Status	Name Applied
Belgium	1983	granted	'Jonagored'
West Germany	1984	granted	'Jonagored'
Switzerland	1984	granted	'Jonagored'
Netherlands	1984	granted	'Jonagored'
United Kingdom	1984	granted	'Jonagored'
Denmark	1984	granted	'Jonagored'
USA	1984	granted	'Jonagored'
France	1984	granted	'Jonagored'
Italy	1984	pending	'Jonagored'
South Africa	1985	pending	'Jonagored'

Japan	1986	pending	'Jonagored'
New Zealand	1986	granted	'Jonagored'
Hungary	1988	pending	'Jonagored'
Spain	1988	pending	'Jonagored'
East Germany	1988	pending	'Jonagored'

First sold Belgium Dec 1986 as 'Morren's Jonagored apple'.

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

Table 1 *Malus* varieties

	'Jonagored'	**'Jonagold'
TREE / STEM COLOUR		
	dark wood	pale wood
LEAF COLOUR		
leaf	very dark green	dark green
vein - underside	red vein	little/none
PEDICEL		
colour	red	brown-red
SEPAL COLOUR		
sepal point	green red-brown	green light brown-red
STAMENS		
position	against sepals	against sepals
colour	dark red	slightly red
MATURE FRUIT		
colour	blood red white lenticels faintly striped	orange-red bloom over yellow-green ground colour

'SA244-20' syn 'Maypole'

Application No: 93/116 Accepted: 7 May 1993.

Applicant: **Plant Breeding Institute Cambridge**, Cambridge, United Kingdom.

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

Description (Table 2, Figure 47) Plant: vigour weak, spur bearing, growth columnar. Stem: thin; lenticel number medium, size small, pubescence moderate. Leaf: size medium, margin crenate, petiole long (44.5mm). Flower: size medium, mid season; petals overlap slight, colour carmine; buds ovoid. Fruit: small, symmetric, round-conical, maturity mid season, ornamental; crowning weak; eye small, closed, locule aperture open, sepals short; stalks long, thin, moderate depth of cavity; skin solid purple, smooth, greasy with bloom, russet absent; flesh pink, shows strong browning after one hour; resistant to Apple scab.

Origin Open pollination: 'McIntosh Wijcik' x 'Baskatong'. Breeder: East Malling Research Station,

Kent, United Kingdom, 1984. Selection criteria: columnar growth habit, abundance of attractive blossom, production of ornamental crab apples.

Comparative Trials Comparator: 'Waltz'. Location: East Malling Research Station, Kent, United Kingdom, 1984. Description based on data obtained from the United Kingdom Report on Technical Examination.

Prior Applications and Sales

Country	Year	Status	Name applied
UK	1984	-	'SA244-20'

First sold overseas United Kingdom 1989.

First sold Australia 1994.

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

Table 2 *Malus* varieties

	'SA244-20'	**'SA251-18'
LEAF length:width		
	medium (1.7)	elongate (2.3)
PETAL		
colour	purple	pink
RHS	63A	64C
margin position	slight overlap	overlap
FRUIT		
type	ornamental crabapple	culinary edible
size (mm)	very small, 36	medium, 70.1
shape	symmetrical	asymmetrical
lenticel size	small	medium
skin:		
groundcolour	absent	green/yellow
overcolour	100% purple	50% red
relief of surface	smooth	hammered
ribbing	absent	not prominent
bloom	present	absent
greasiness	strong	absent
stalk:		
length (mm)	very long	short, 15.6
thickness	thin	thick
cavity depth (mm)	moderate	shallow, 9.2
coreline distinction	very strong	weak

'SA251-18' syn 'Waltz'

Application No: 93/115 Accepted: 7 May 1993.

Applicant: **Plant Breeding Institute Cambridge**, Cambridge, United Kingdom.

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

Description (Table 3, Figure 47) Plant: growth columnar, vigour weak, spur bearing. Leaf: downwards pose, elongated, serrate, petiole long. Flower: size medium, mid season; petals overlapping, pink. Fruit: size medium, asymmetric, round-conical, maturity late; slight ribbing;

crowning moderate, basin moderate depth and width; eye aperture small, closed; sepals size medium; stalks short, thick; cavity shallow, lenticel size medium; skin ground-colour green-yellow, overcolour moderate red as solid flush, hammered, non-greasy, bloom absent, russet absent; flesh cream, moderately firm; coreline not easily distinguished; Apple Scab resistant.

Origin Open pollination: 'Wijik' x 'Golden Delicious'. Breeder: East Malling Research Station, Maidstone, Kent, United Kingdom, 1984. Selection criteria: columnar growth habit, red to purple fruit with strong ribbing in the basin coupled with a shallow cavity.

Comparative Trial Comparator: 'SA244-20'. Location: East Malling Research Station, Maidstone, Kent, United Kingdom, 1984. Description based on data obtained from the United Kingdom Report on Technical Examination.

Prior Applications and Sales

Country	Year	Status	Name Applied
UK	1984	-	'SA251-18'

First sold United Kingdom 1989.

First sold Australia 1994.

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

Table 3 Malus varieties

	'SA251-18'	*'SA244-20'
LEAF		
length:width	elongate, 2.3	medium, 1.7
petiole length (mm)	long, 48.7	long, 44.5
PETAL		
colour	pink	purple
RHS	64C	63A
margin position	overlap	slight overlap
FRUIT		
type	culinary edible	ornamental crabapple
size (mm)	medium, 70.1	very small, 36
shape	asymmetrical	symmetrical
lenticel size	medium	small
skin:		
groundcolour	green/yellow	absent
	50% red	100% purple
relief of surface	hammered	smooth
ribbing	not prominent	absent
bloom	absent	present
greasiness	absent	strong
stalk:		
length (mm)	short, 15.6	very long
thickness	thick	thin
cavity depth (mm)	shallow, 9.2	moderate
coreline distinction	weak	very strong

AZALEA

Rhododendron hybrid

'Paradise Christine'

Application No: 95/070 Accepted: 28 Feb 1995.

Applicant: **Mr RJ Cherry**, Kulnura, NSW.

Description (Table 4, Figure 19) Plant: upright, bushy, evergreen shrub, height 150cm. Leaf: slightly obovate, margin entire; apex obtuse, mucronate; base cuneate; colour upperside medium green RHS 147A, underside light green RHS 146B; pubescent. Bud: colour close to RHS 64B. Flower: large, open funnel, produced in clusters of three on terminal growth; one complete row of five true fused petals and one inner row of 8-9 fused petaloid stamens, colour cerise RHS 64B with deeper speckling present on lower three petals and petaloids RHS 59B; stamens most often petaloid; ovary hairy, epigynous; style colour RHS 158C.

Origin Controlled pollination: 'Martha Gardiner' x 'Jennifer Anne', 1985. Breeder: RJ Cherry, Kulnura, NSW 1985. Selection criteria: floral characteristics.

Comparative Trial Comparator: 'Happy Days'. Location: Paradise Plants Nursery, Kulnura, NSW, Feb 1993 - May 1996. Conditions: plants raised on their own roots in 150mm pots and repotted into 200mm pots in a commercial potting mix in 1994 under 50% shade cloth, all plants provided with same treatments for crop protection and slow release fertiliser. Trial design: 11 plants of each variety arranged in a randomised complete block. Measurements: from all available plants.

Prior Applications and Sales

First sold Australia 1996.

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

Table 4 Rhododendron varieties

	'Paradise Christine'	*'Happy Days'
PLANT HABIT		
	broad bushy	very broad busy
LEAF		
shape	elliptic-oval	obovate
apex	acute, mucronate	obtuse, mucronate
base	cuneate	obtuse
upperside RHS	147A	137A
LEAF LENGTH (mm)		
mean	42.35	51.67
std deviation	4.37	6.80
LSD/sig	1.44	P0.01
LEAF WIDTH (mm)		
mean	17.74	20.36
std deviation	2.18	3.34
LSD/sig	0.76	P≤0.01

Table 4 *Rhododendron* Varieties - continued

FLOWER FORM		
	hose-in-hose double, sepals transformed to a outer row of petals	double single row of true petals with a centre of small petals and petaloids
FLOWER COLOUR (RHS)		
petals - initial	64A	77B
petals - fading to	64B	72B
speckling	59B	60B
PETAL WIDTH (mm)		
mean	32.88	22.94
std deviation	1.45	2.15
LSD/sig	1.59	P≤0.01
FLOWERING SEASON		
	Mar - Nov	May - Aug

'Paradise Louise'

Application No: 95/071 Accepted: 28 Feb 1995.
Applicant: **Mr RJ Cherry**, Kulnura, NSW.

Description (Table 5, Figure 18) Plant: upright, bushy, evergreen shrub, height 150cm. Leaf: slightly obovate, margin entire; apex obtuse, mucronate; base cuneate; colour upperside medium green RHS 137A, underside light green RHS 146B; pubescent. Bud: colour RHS 56C. Flower: large, open funnel, double, produced in clusters of three on terminal growth; one complete row of five true fused petals and an inner row of fused petaloid stamens; colour soft pink RHS 62B with speckling apparent on lower three petals and petaloids RHS 62D; stamens rarely noted as they are most often petaloid; ovary hairy, epigynous; style colour RHS 158C.

Origin Controlled pollination: 'Lavender Rosina' x 'Jennifer Anne', 1985. Breeder: RJ Cherry, Kulnura, NSW 1985. Selection criteria: floral characters.

Comparative Trial Comparator: 'Lavender Rosina'. Location: Paradise Plants Nursery, Kulnura, NSW, Feb 1993 - May 1996. Conditions: plants raised on their own roots in 150mm pots and repotted into 200mm pots in a commercial potting mix in 1994 under 50% shade cloth, all plants provided with same treatments for crop protection and slow release fertiliser. Trial design: 11 plants of each variety arranged in a randomised complete block. Measurements: done on all the available plants.

Prior Applications and Sales First sold in Australia 1996.

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

Table 5 *Rhododendron* varieties

	'Paradise Louise'	*'Lavender Rosina'
LEAF		
shape	slightly obovate	obovate
cross section	slightly concave	flat
upperside RHS	147A	137A
LEAF LENGTH (mm)		
mean	44.50	50.91
std deviation	3.50	4.36
LSD/sig	2.12	P≤0.01
FLOWER DIAMETER (mm)		
mean	86.5	76.2
std deviation	7.1	5.75
LSD/sig	4.28	P≤0.01
FLOWER COLOUR (RHS)		
petals - initial	62B	84C
petals - fading to	62C	69D
speckling	64D	70C
FLOWERING SEASON		
	Mar - Nov	May - Aug

BARLEY
Hordeum vulgare

'Chieftain' syn '1846-4139'

Application No: 95/129 Accepted: 26 Apr 1995.
Applicant: **Plant Breeding International Cambridge Ltd**, Cambridge, United Kingdom.
Agent: **Heritage Seeds Pty Ltd**, Melbourne, VIC.

Description (Table 6, Figure 58) Plant: height medium; straw short, stiff; two row, aleurone white, spring barley, maturity late mid season. Ear: horizontal, density medium, tapering, length short (84.65mm), awns long (158.35mm), anthocyanin weak, awns longer than ear, humping of rachis segments absent/very weak, grain husked, sterile spikelet tip square; rachilla length medium, hairs long and straight; inner nerve spiculation weak; lodicules clasping.

Origin Controlled pollination: 'Brittania' x 'Prisma'. Breeder: Plant Breeding International Cambridge Ltd, Cambridge, United Kingdom. Selection criteria: high yield, good disease resistance, strong straw, improved malting quality.

Comparative Trial: Comparators: 'Franklin', 'Arapiles'. Location: Heritage Seeds Research Farm, Howlong, NSW. Trial design: 6m² field plots in a four replicate randomised complete block. Measurements: 50 randomly selected samples.

Prior Applications and Sales Nil.

Description: **Peter Neilson**, Heritage Seeds Research, Howlong, NSW.

Table 6 *Hordeum* varieties

	'Chieftain'	*'Franklin'	*'Arapiles'
FLAG LEAF			
attitude	slightly recurved	medium recurved	weakly recurved
auricle anthocyanin intensity	very strong	weak	weak
EAR EMERGENCE (decimal scale)			
mean	35	0	35
std deviation	5.0	0.0	5.0
LSD/sig	5.44	P≤0.01	ns
EAR LENGTH (mm)			
mean	84.65	99.58	79.81
std deviation	8.71	7.33	6.05
LSD/sig	2.73	P≤0.01	P≤0.01
AWN ANTHOCYANIN			
intensity	weak	medium	very weak

'Dash' syn 'NFC 902/909'

Application No: 95/053 Accepted: 20 Feb 1995.

Applicant: **New Farm Crops Ltd**, Lincolnshire, United Kingdom.Agent: **Heritage Seeds Pty Ltd**, Melbourne, VIC.

Description (Table 7, Figure 58) Plant: height medium (882.47 mm), two row, aleurone white, spring barley, maturity late mid season. Ear: erect, dense, tapering, length medium (92.37 mm), awns short (111.82 mm), anthocyanin weak, awns longer than ear, humping of rachis segments absent/very weak, grain husked, sterile spikelet tip square, rachilla and rachilla hairs long, nerves spiculated, lodicules clasping.

Origin Controlled pollination: F₁('Chad' x 'Joline') x 'Cask'^φ. Breeder: New Farm Crops Ltd, Lincoln, UK. Selection criteria: erectoid habit, high yield, improved disease resistance, feed grain quality.

Comparative Trial: Comparator: 'Cask'^φ. Location: Heritage Seeds Research Farm, Howlong, NSW. Trial design: 6m² field plots in a four replicate randomised complete block. Measurements: 50 randomly selected samples.

Prior Applications and Sales Applied Spain Nov 1992.

Description: **Peter Neilson, Heritage Seeds Research**, Howlong, NSW.**Table 7 *Hordeum* varieties**

	'Dash'	*'Cask' ^φ
FLAG LEAF		
auricle anthocyanin intensity	weak	very strong

Table 7 *Hordeum* Varieties - continued

EAR EMERGENCE (decimal scale)		
mean	37.50	12.50
std deviation	4.33	4.33
LSD/sig	5.44	P≤0.01
EAR		
attitude	erect	semi-erect
EAR DENSITY (mm)		
mean	26.09	28.99
std deviation	2.16	2.25
LSD/sig	0.93	P≤0.01
AWN LENGTH (mm)		
mean	111.82	94.37
std deviation	9.1	13.92
LSD/sig	5.5	P≤0.01
compared to ear	short	very short
AWN ANTHOCYANIN		
intensity	weak	strong
STERILE SPIKELET		
lemma length	short	very short
tip shape	fusiform	tapering
GRAIN		
glume+awn:grain	equal	shorter
rachilla hair type	long	short

'Empress' syn '90BE32'

Application No: 95/128 Accepted: 26 Apr 1995.

Applicant: **New Zealand Institute for Crop & Food Research Ltd**, Christchurch, New Zealand.Agent: **Heritage Seeds Pty Ltd**, Melbourne, VIC.

Description (Table 8, Figure 58) Plant: height medium, straw short, two row, aleurone white, spring barley, maturity mid season. Ear: semi erect, density lax, parallel, length long (100.34mm), awns long (155.37mm), anthocyanin very weak, awns longer than ear, humping of rachis segments very weak; grain husked, sterile spikelet tip pointed, attitude divergent, rachilla medium long, rachilla hairs long, inner nerve spiculation absent/very weak, lodicules clasping.

Origin Controlled pollination: Breeders reference 'H1006.3' x Breeders reference 'HE902'. Breeder: Crops & Food Research Ltd, Lincoln, New Zealand. Selection criteria: high yield, disease resistance, improved malting quality.

Comparative Trial: Comparators: 'Franklin', 'Cask'^φ. Location: Heritage Seeds Research Farm, Howlong, NSW. Trial design: 6m² field plots in a four replicate randomised complete block. Measurements: 50 randomly selected samples.

Prior Applications and Sales Nil.

Description: **Peter Neilson, Heritage Seeds Research**, Howlong, NSW.

Table 8 *Hordeum* varieties

	'Empress'	**'Franklin'	**'Galaxy'	**'Cask' ^(b)
GROWTH HABIT	semi prostrate	medium	semi-erect	erect
FLAG LEAF attitude	curved	curved	straight	straight
auricle anthocyanin intensity	medium	weak	very strong	very strong
EAR EMERGENCE (Decimal scale)				
mean	52.5	0	75	12.50
std deviation	4.33	0.0	5.0	4.33
LSD/sig	5.44	P0.01	P0.01	P0.01
EAR attitude	slightly curved	slightly curved	medium curved	slightly curved
shape	parallel	tapering	parallel	tapering
EAR DENSITY (mm)				
mean	34.54	30.53	29.44	28.99
std deviation	1.71	2.1	1.78	2.25
LSD/sig	0.93	P0.01	P0.01	P0.01
AWN LENGTH (mm)				
mean	155.37	145.52	146.35	94.37
std deviation	18.38	17.71	10.97	13.92
LSD/sig	5.5	P0.01	P0.01	P0.01
AWN TIP ANTHOCYANIN intensity	very weak	medium	very strong	strong
RACHIS humping of segments	very weak	weak	weak	weak
STERILE SPIKELET tip shape	erect	semi-erect	semi-erect	erect
GRAIN rachilla length	medium	short	short	long

'Monarch' syn 'NFC1243-11'

Application No: 95/054 Accepted: 20 Feb 1995.

Applicant: **New Farm Crops Ltd**, Lincolnshire, United Kingdom.Agent: **Heritage Seeds Pty Ltd**, Melbourne, VIC.

Description (Table 9, Figure 58) Plant: height medium short, two row, aleurone white, spring barley, maturity mid season. Ear: semi erect, density lax, tapering, length medium (96.67mm), awns very long (178.09mm), anthocyanin medium, awns longer than ear, humping of rachis segments very weak, grain husked, rachilla and rachilla hairs long, nerves spiculated, lodicules clasping.

Origin Controlled pollination: F₁('Fergie' x 'Peel') x 'Cask'^(b). Breeder: New Farm Crops Ltd, Lincoln, United Kingdom. Selection criteria: short stiff straw, improved disease resistance, high yield, improved malting quality.

Comparative Trial: Comparators: 'Galaxy', 'Schooner', 'Arapiles'. Location: Heritage Seeds Research Farm,

Howlong, NSW. Trial design: 6m² field plots in a four replicate randomised complete block. Measurements: 50 randomly selected samples.

Prior Applications and Sales Applied Spain Nov 1992.

Description: **Peter Neilson, Heritage Seeds Research**, Howlong, NSW.

Table 9 *Hordeum* varieties

	'Monarch'	**'Galaxy'	**'Schooner'	**'Arapiles'
GROWTH HABIT	semi prostrate	semi-erect	intermediate	semi prostrate
PLANT HEIGHT (cm)				
mean	860.98	963.17	1022.34	993.94
std deviation	70.98	60.74	72.02	55.15
LSD/sig	50.74	P0.01	P0.01	P0.01
FLAG LEAF				
attitude	straight	straight	straight	slightly curved
auricle anthocyanin intensity	weak	very strong	medium	weak
glaucosity of sheath	strong	strong	medium	strong
EAR EMERGENCE (decimal scale)				
mean	50	75	87.50	35
std deviation	0.0	5.0	8.29	5.0
LSD/sig	5.44	P0.01	P0.01	P0.01
EAR				
attitude	straight	slightly curved	slightly curved	slightly curved
shape	tapering	parallel sided	tapering	tapering
EAR DENSITY (mm)				
mean	32.23	29.44	29.67	28.17
std deviation	1.72	1.78	1.77	1.70
LSD/sig	0.93	P0.01	P0.01	P0.01
EAR LENGTH (mm)				
mean	96.67	95.04	85.16	79.81
std deviation	7.17	8.68	9.63	6.05
LSD/sig	0.93	P0.01	P0.01	P0.01
AWN LENGTH (mm)				
mean	178.09	146.35	153.04	153.77
std deviation	15.33	10.97	16.06	18.10
LSD/sig	5.5	P0.01	P0.01	P0.01
AWN ANTHOCYANIN intensity	medium	very strong	strong	very weak
RACHIS				
first segment length	medium	medium	short	medium
first segment curvature	weak	medium	medium	medium
humping of segments	very weak	weak	weak	very weak
STERILE SPIKELET				
attitude	divergent	divergent	parallel	divergent
lemma length	long	medium	medium	medium
GRAIN				
spiculation of nerves	absent	weak	very strong	weak

CANNA
Canna sp
'Phasion'

Application No. 95/158 Accepted: 5 Jul 1995.

Applicant: **Jan Plant**, Bethal, Republic of South Africa.Agent: **Plant Promotions International**, Silvan, VIC.

Description (Table 10, Figure 36) Plant: rhizomatous herb. Leaf: arrangement spiral, lamina large, ovate to

broad elliptic, glabrous, entire, multicoloured, midrib prominent. Inflorescence: terminal raceme, bracteolate, bracts red purple. Flower: unequal, showy, large, bisexual, asymmetric, yellow orange; veins orange RHS 28A; interveinal area yellow RHS 17A; ovary three locular. Fruit: verrucose, RHS 77A and 146A.

Origin Open pollination: 'Wyoming'. Breeder: Jan Plant, Bethal, South Africa. Selection criteria: leaf colour. Propagation: rhizomes through several generations.

Comparative Trial Comparator: 'Wyoming'. Location: Silvan, VIC, May 1995 - Mar 1996. Conditions: ambient, kraznozem soil, fertiliser, controlled release. Trial design: split plots. Measurements: twenty random samples from seven plants.

Prior Applications and Sales Nil.

First sold South Africa 1995.

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

Table 10 *Canna* varieties

	'Phasion'	*'Wyoming'
PLANT HEIGHT (cm)		
mean	78.3	117.4
std deviation	10.1	15.1
LSD/sig	21	P≤0.01
PLANT CHARACTERISTICS		
habit	upright	upright
size	medium	large
growth rate	slow	medium
LEAF LENGTH (cm) largest		
mean	39.7	46.4
std deviation	3.6	4.1
LSD/sig	3.0	P≤0.01
LEAF WIDTH (cm) largest		
mean	21.3	23.6
std deviation	3.3	2.2
LSD/sig	1.9	P≤0.01
LEAF COLOUR (RHS)		
midrib:		
new leaves	34A-34B	187A-187B
older leaves	19A	147C
minor vein:		
new leaves	34A	186A
older leaves	26A-26B, 19A	186A
interveinal:		
new leaves	187A-187B	187A-187B
older leaves	146A-147B	147A-147B
FLOWER STEM LENGTH (cm)		
mean	46.3	67.2
std deviation	7.5	20.3
LSD/sig	17.0	P≤0.01

CITRUS

Citrus tangar [(C. unshiu x C. sinensis) x C. unshiu]

'Tsunokaori'

Application No: 94/084 Accepted: 13 Apr 1994.

Applicant: **Ministry of Agriculture, Forestry and Fisheries**, Ibaraki, Japan.

Agent: **Davies Collison Cave**, Melbourne, VIC.

Description (Table 11, Figure 48) Plant: upright, size medium, internode length medium, water shoot thorns

absent. Leaf: blade undulation strong, petiole wings absent, length medium (1.9cm), length to width ratio large (19.6%). Flower: single; petals white JHSC 2902, number few; viable pollen absent. Fruit: size medium (142g); shape distal, end round; colour orange JHSC 1605, surface relief smooth, navel present, shallow, rind thin (mean 2.8mm), rind to flesh adherence medium, flesh orange JHSC 2702, columella small (3.4%); juice colour orange, acid content moderate, sugar content high (13.9⁰-15⁰ brix); seed polyembryonic; maturity time late (Apr 1-10 at Nagasaki, Japan). (JHSC - Japanese Horticultural Society colour chart)

Origin Controlled pollination: 'Kiyomi' x 'Okitsu-Wase', 1972. Breeder: Fruit Tree Research Station, Nagasaki, Japan. Selection criteria: fruit characteristics. Propagation: vegetative.

Comparative Trials Comparators: 'Kiyomi', 'Okitsu-Wase'. Location: five locations - Shizuoka, Wakamaya, Kochi, Yamaguchi, Nagasaki, Apr 1984 - Mar 1990. Description based on Japanese test reports (Patent No. 2890). The qualified person considers 'Kiyomi' and 'Okitsu-Wase' as the probable closest local comparators and differs from them in being late maturing, medium flowering season, small round fruits, smooth skin.

Prior Applications and Sales

Country	Year	Status	Name Applied
Japan	1990	Patent	'Tsunokaori'

Description: **David McDonald**, Agrisearch Services Pty Ltd, Adelaide, SA.

Table 11 *Citrus* varieties

	'Tsunokaori'	*'Kiyomi'	*'Okitsu-Wase'
LEAF BLADE			
shape index %	44.8	43.0	41.1
tip angle (deg)	71.1	56.8	57.1
base angle (deg)	70.8	63.9	62.9
thickness (mm)	0.24	0.3	0.29
area (cm ²)	28.4	30.2	29.3
length (cm)	9.7	10.1	10.3
ratio of width to blade(%)	19.6	15.8	16.5
PETIOLE LENGTH (cm)			
	1.9	1.6	1.7
PETAL			
number	3.5	4.3	5.0
length (mm)	9.8	12.2	19.3
OVARY diameter (mm)			
	3.8	3.2	4.1
FRUIT			
size (g)	142	178	102

Table 11 *Citrus* Varieties - continued

columella cross section (%)	3.4	3.2	5.6
rind thickness (mm)	2.8	3.7	2.7
oil cells/cm ²	56	34	25
FLOWERING TIME Nagasaki, Japan			
	May 2	Apr 28	Apr 28

CLEMATIS*Clematis gentianoides* x *Clematis aristata***'Southern Cross' syn 'Garden Surprise'**

Application No: 94/234 Accepted: 24 Jan 1995.

Applicant: **Plants of Tasmania**, Ridgeway, TAS.

Description (Table 12, Figure 21) Plant: small trailing sub-shrub, glabrous, dioecious. Stem: almost square, ribbed, internode length 6.27mm. Leaf: length 4.69cm, non twining petiole divided into three; leaflet sometimes stalked, ovate-cordate or narrow lanceolate, apex obtuse or acute 2-7cm long, margin entire or irregularly toothed, rather thick. Flower: pedicel long, axillary sometimes terminal in upper leaves. Sepal: white, 5-6, linear lanceolate to narrow ovate, length 1.5-3.0cm, glabrous or nearly so.

Origin Natural pollination: *Clematis gentianoides* x *Clematis aristata* 1992. Breeder: Will Fletcher, Ridgeway, TAS. Selection criteria: plant habit, floral characters. Propagation: cuttings.

Comparative Trial Comparators: *Clematis gentianoides*, *Clematis aristata*. Location: Ridgeway, TAS, Mar 1994 - Mar 1996. Conditions: One hundred plants raised in potting mix of composted pine bark and sand in 200mm pots for two years. Trial design: unreplicated. Measurements: 5 random samples of each variety.

Prior Applications and Sales Nil.

Description: **Robert Reid**, Launceston, TAS.

Table 12 *Clematis* varieties

	'Southern Cross'	* <i>Clematis gentianoides</i>	* <i>Clematis aristata</i>
STEM length stature	intermediate semi-pliable	short erect	long semi-pliable
LEAF WIDTH (cm)			
mean	1.09	1.73	1.67
std deviation	0.18	0.38	0.21
LSD/sig	0.45	P≤0.01	P≤0.01
LEAF LENGTH:WIDTH RATIO			
mean	4.39	2.88	2.81
std deviation	0.95	0.46	0.96
LSD/sig	1.42	P≤0.01	P≤0.01

Table 12 *Clematis* Varieties - continued

TRIFOLIATE LEAVES			
	present	absent	present
TWINING PETIOLES			
	absent	absent	present
LEAF PETIOLE LENGTH (cm)			
mean	2.46	0.48	3.39
std deviation	0.45	0.48	0.65
LSD/sig	0.63	P≤0.01	P≤0.01

COTTON*Gossypium hirsutum***'Sicot 189'**

Application No: 96/088 Accepted: 22 Apr 1996.

Applicant: **CSIRO Division of Plant Industry, Cotton Research Unit**, Narrabri, NSW.

Description (Table 13, Figure 57) Plant: tall, late maturing (180 days). Leaf: palmate, pubescence of midrib very slight, gossypol and nectary glands present. Flower: petals cream. Boll: size medium, elliptical, bract size medium (44x28mm). Seed: small. Lint: proportion high (39.8%), length medium (1.20ins), strength medium (30.0g/tex), micronaire medium (3.6). Bacterial Blight resistant, Verticillium Wilt good tolerance.

Origin Controlled pollination: F₁ ('Deltapine Acala 90' x 'Tancot SP37H') x 'Deltapine Acala 90'. Breeder: Mr Peter Reid, CSIRO, Narrabri, NSW. Selection criteria: plant habit, resistance to Bacterial Blight and Verticillium Wilt, leaf hairiness, fibre quality and yield.

Comparative Trial Comparators: 'CS 189+', 'Sicala V-2'^φ. Location: Australian Cotton Research Institute, Narrabri, 1995/96. Trial design: randomised block design with three replicates. Measurements: morphological measurements from 10 plants from each plot in trial with 3 replications, lint percentage and fibre quality data from 24 trials in 1993/94 and 1994/95.

Prior Applications and Sales Nil.

Description: **Peter Reid**, CSIRO Division of Plant Industry, Cotton Research Unit, Narrabri, NSW

Table 13 *Gossypium* varieties

	'Sicot 189'	*'CS 189+'	*'Sicala V-2' ^φ
FRUIT BRANCH (mm) node 1			
mean	109.6	80.8	101.9
std deviation	13.79	10.63	11.23
LSD/sig	23.17	P≤0.01	ns
BRACT LENGTH (mm)			
mean	43.7	42.7	48.8
std deviation	0.73	1.28	0.78
LSD/sig	3.98	ns	P≤0.01

Table 13 *Gossypium* Varieties - continued

BRACT WIDTH (mm)			
mean	27.9	29.2	35.1
std deviation	0.93	2.00	1.55
LSD/sig	4.73	ns	P≤0.01
LINT %			
mean	39.82	38.37	39.76
std deviation	0.774	0.803	0.856
LSD/sig	0.403	P≤0.01	ns
FIBRE QUALITY CHARACTERISTICS:			
FIBRE LENGTH (ins)			
mean	1.199	1.185	1.185
std deviation	0.0264	0.0241	0.0202
LSD/sig	0.0094	P≤0.01	P≤0.01
UNIFORMITY INDEX (%)			
mean	83.87	83.78	84.21
std deviation	0.769	0.728	0.673
LSD/sig	0.329	ns	P≤0.01
EXTENSION (%)			
mean	5.83	5.73	5.38
std deviation	0.388	0.357	0.336
LSD/sig	0.135	ns	P≤0.01

'Siokra S-101'

Application No: 96/089 Accepted: 22 Apr 1996.

Applicant: **CSIRO Division of Plant Industry, Cotton Research Unit**, Narrabri, NSW.

Description (Table 14, Figure 56) Plant: short, early maturing (170 days). Leaf: digitate, pubescence of midrib very slight, gossypol and nectary glands present. Flower: petals cream, stigma to stamen distance short (2.9mm). Boll: small, elliptical, peduncle medium (30mm). Seed: small. Lint: proportion high (40.4%), length medium (1.19ins), strength medium (29.4g/tex), micronaire medium (3.7). Bacterial Blight resistant, Verticillium Wilt good tolerance.

Origin Controlled pollination: 'Siokra S324' x 'Sicala V-1'. Breeder: Mr Peter Reid, CSIRO, Narrabri, NSW. Selection criteria: plant habit, resistance to Bacterial Blight and Verticillium Wilt, leaf shape, leaf hairiness, fibre quality and yield.

Comparative Trial Comparators: 'Siokra S324' and 'Siokra V-15'^φ. Location: Australian Cotton Research Institute, Narrabri, NSW, 1995/96. Trial design: randomised complete block design with three replications. Measurements: morphological measurements from 10 plants from each plot in trial with 3 replications, lint percentage and fibre quality data from 24 trials in 1993/94 and 1994/95.

Prior Applications and Sales Nil.

Description: **Peter Reid, CSIRO Division of Plant Industry, Cotton Research Unit**, Narrabri, NSW

Table 14 *Gossypium* varieties

	'Siokra S-101'	*'Siokra S324'	**'Siokra V-15' ^φ
PEDUNCLE LENGTH (mm)			
mean	30.3	25.3	33.2
std deviation	2.81	1.69	1.50
LSD/sig	4.26	P≤0.01	ns
STIGMA DISTANCE ABOVE STAMENS (mm)			
mean	2.9	7.3	6.7
std deviation	1.24	0.38	1.53
LSD/sig	2.47	P≤0.01	P≤0.01
SEED INDEX (g)			
mean	8.67	8.67	9.93
std deviation	0.242	0.252	0.379
LSD/sig	0.691	ns	P≤0.01
LINT (%)			
mean	40.35	40.22	38.82
std deviation	0.944	1.006	0.970
LSD/sig	0.403	ns	P≤0.01
FIBRE QUALITY CHARACTERISTICS:			
FIBRE LENGTH (ins)			
mean	1.192	1.159	1.209
std deviation	0.0206	0.0262	0.0177
LSD/sig	0.0094	P≤0.01	P≤0.01
UNIFORMITY INDEX (%)			
mean	84.47	84.31	84.90
std deviation	0.565	0.536	0.668
LSD/sig	0.329	ns	P≤0.01
STRENGTH (g/tex)			
mean	29.37	27.48	30.65
std deviation	1.147	1.122	1.275
LSD/sig	0.519	P≤0.01	P≤0.01
EXTENSION (%)			
mean	5.38	6.06	5.69
std deviation	0.290	0.487	0.356
LSD/sig	0.135	P≤0.01	P≤0.01
MICRONAIRE			
mean	3.66	3.65	3.47
std deviation	0.404	0.463	0.332
LSD/sig	0.112	ns	P≤0.01
FINENESS (millitex)			
mean	142.1	143.7	135.7
std deviation	13.60	14.08	12.03
LSD/sig	3.56	ns	P≤0.01

COTTON LAVENDER
Santolina virens

'Lemon Fizz'

Application No: 94/182. Accepted: 22 Aug 1994.

Applicant: **Bob Pearce, Pearce's Nurseries Pty Ltd**, McLeans Ridge, NSW.

Description (Table 15, Figure 11) Plant: aromatic perennial herb. Leaf: alternate, pinnately toothed to pinnately divided, gold. Flowers: solitary, tubular, bisexual, yellow; peduncle long, discoid; involucre bracts imbricate, 2-3 rows; receptacle convex.

Origin: Spontaneous mutation: *Santolina virens*. Breeder: Bob Pearce, Pearce's Nurseries Pty Ltd, McLeans Ridge, NSW. Selection criteria: continual selection of mutated material over three years for consistency of golden foliage. Propagation: vegetative.

Comparative Trial: Comparator: 'Green Gold'. Location: McLeans Ridges, NSW, Sep - Nov 1995. Conditions: plants raised as cuttings Feb 1995, transplanted to 100mm pots Jul 1995, standard soilless potting medium, ambient North East NSW conditions. Trial design: grouped replicates. Measurements: 10 random samples of each variety.

Prior Applications and Sales Nil.

Description: **Bob Pearce, Pearce's Nurseries Pty Ltd, McLeans Ridge, NSW.**

Table 15 *Santolina* Varieties

	'Lemon Fizz'	**'Green Gold'
PLANT HEIGHT (mm)		
mean	112.2	147.2
std deviation	24.86	26.97
LSD/sig	29.61	P≤0.01
LEAF LENGTH (mm)		
mean	43.8	45.9
std deviation	2.394	4.909
LSD/sig	4.41	P≤0.01
INTERNODE LENGTH (mm) 10 nodes		
mean	40.80	66.37
std deviation	7.86	9.32
LSD/sig	9.84	P≤0.01
GOLDEN FOLIAGE %		
mean	99.0	64.0
std deviation	0.82	29.77
LSD/sig	24.03	P≤0.01

COUCH GRASS
Cynodon dactylon

'Riley's Super Sport'

Application No: 95/127 Accepted: 11 Apr 1995.

Applicant: **RJ & ML Riley Pty Ltd, Guildford NSW.**

Description (Table 16, Figure 50) Plant: perennial turf grass, growth habit prostrate, colour deep green RHS 147A, winter growth minimum, unmown height very low (8.0mm). Stolon: colour red purple, density high, internode short (13.6mm). Leaf: short (8.0mm), length: width ratio low. Flower: anther colour red purple (64B). Seed head production: very low (0.2 seedheads/100m²).

Origin Spontaneous mutation: 'Greenlees Park', 1988. Breeder: RJ Riley, Guildford NSW. Selection criteria: very prostrate growth habit, short internode and leaf lengths. Propagation: vegetative through four generations.

Comparative Trial Comparators: 'Windsor Green'[Ⓛ], 'Greenlees Park'. Location: Australian Turfgrass Research Institute Ltd, Concord West, NSW, Oct 1995 - Mar 1996. Conditions: thirty stolons used to establish each grass variety in sandy soil in pots in the open using standard management practices. Trial design: unreplicated pots and trays. Measurements: 100 random samples for internode length, stolon thickness, leaf length and width; 20 measurements for unmown sward; 10 grid counts for seed head density.

Prior Applications and Sales Nil.

Description: **Mr Jyri Kaapro, Australian Turfgrass Research Institute Ltd, Concord West, NSW.**

Table 16 *Cynodon* varieties

	'Riley's Super Sport'	**'Windsor Green' [Ⓛ]	**'Greenlees Park'
PLANT			
habit	v. prostrate	bunched	prostrate
lateral extension rate	medium	slow to medium	medium to high
node density	very high	high	medium
UNCUT SWARD HEIGHT (mm)			
mean	11.7	87.2	21.8
std deviation	0.95	8.52	2.87
LSD/sig	8.40	P≤0.01	P≤0.01
LEAF LENGTH (mm)			
mean	8.0	14.7	11.7
std deviation	0.29	1.13	0.34
LSD/sig	1.58	P≤0.01	P≤0.01
LEAF WIDTH (mm)			
mean	1.7	1.3	1.8
std deviation	0.03	0.04	0.06
LSD/sig	0.07	P≤0.01	P≤0.01
LEAF LENGTH:WIDTH RATIO			
mean	5/1	12/1	7/1
std deviation	0.2	1.7	0.1
LSD/sig	1.41	P≤0.01	P≤0.01
LEAF COLOUR (RHS)			
colour	yellow green 147A	green 137B	yellow green 147B
SEED HEADS/100m²			
mean	0.2	2.5	4.0
std deviation	0.4	1.1	0.9
LSD/sig	1.13	P≤0.01	P≤0.01

DIANTHUS*Dianthus plumarius* x *D. caryophyllus***'Crossover'**

Application No: 94/180 Accepted: 22 Aug 1994.
 Applicant: **Keith Hammett**, Massey, New Zealand.
 Agent: **Bob Pearce, Pearce's Nurseries Pty Ltd**,
 McLeans Ridge, NSW.

Description (Table 17, Figure 20) Plant: perennial, semi-open habit. Leaf: grey-green, linear. Flower: single, petals five, even colouration, slight venation, bud cylindrical, stigma and style purplish, stamens yellow/white; corolla colour RHS 67B, lower corolla flat, margins crenate; apex of outer and inner epicalyx lobes acute, calyx campanulate.

Origin Controlled pollination: *D. plumarius* 'Far Cry' x *D. caryophyllus* 'Crinoline'. Breeder: Keith Hammett, Massey, New Zealand. Selection criteria: flower colour and repeat flowering. Propagation: vegetative.

Comparative Trial: Comparator: 'Far Cry'. Location: McLeans Ridges, NSW, Sep - Nov 1995. Conditions: plants raised as cuttings Feb 1995, transplanted to 200mm pots Jul 1995, standard soilless potting medium, ambient North East NSW conditions. Trial design: grouped replicates. Measurements: 10 random samples of each variety.

Prior Applications and Sales

First sold New Zealand Sep 1993.

Description: **Bob Pearce, Pearce's Nurseries Pty Ltd**, McLeans Ridge, NSW.

Table 17 *Dianthus* varieties

	'Crossover'	**'Far Cry'
STEM LENGTH (mm)		
mean	179.56	159.10
std deviation	16.74	6.35
LSD/sig	14.45	P≤0.01
LEAF LENGTH (mm)		
mean	118.28	72.18
std deviation	6.99	5.51
LSD/sig	7.19	P≤0.01
LEAF WIDTH (mm)		
mean	4.11	3.19
std deviation	0.52	0.36
LSD/sig	0.51	P≤0.01
FLOWER DIAMETER (mm)		
mean	50.85	41.83
std deviation	2.53	2.27
LSD/sig	2.74	P≤0.01

'Far Out'

Application No: 94/181 Accepted: 22 Aug 1994.
 Applicant: **Keith Hammett**, Massey, New Zealand.
 Agent: **Bob Pearce, Pearce's Nurseries Pty Ltd**,
 McLeans Ridge, NSW.

Description (Table 18, Figure 20) Plant: perennial, habit open. Leaf: grey-green, linear. Flower: semi-double, stigma and style lavender, sepals grey-white; corolla colour RHS 74B, lower corolla concave, margins crenate; apex of outer and inner lobes of epicalyx acute, calyx campanulate, bud cylindrical.

Origin Controlled pollination: *D. plumarius* 'Far Cry' x *D. caryophyllus* 'ABC 1'. Breeder: Keith Hammett, Massey, New Zealand. Selection criteria: flower colour and repeat flowering. Propagation: vegetative.

Comparative Trial Comparator: 'Far Cry'. Location: McLeans Ridges, NSW, Sep - Nov 1995. Conditions: plants raised as cuttings Feb 1995, transplanted to 200mm pots Jul 1995, standard soilless potting medium, ambient North East NSW conditions. Trial design: grouped replicates. Measurements: 10 random samples of each variety.

Prior Applications and Sales Nil.

Description: **Bob Pearce, Pearce's Nurseries Pty Ltd**, McLeans Ridge, NSW.

Table 18 *Dianthus* varieties

	'Far Out'	**'Far Cry'
STEM LENGTH (mm)		
mean	205.9	159.1
std deviation	51.16	22.51
LSD/sig	4.41	P≤0.01
LEAF LENGTH (mm)		
mean	92.6	72.2
std deviation	12.45	6.00
LSD/sig	6.89	P≤0.01
LEAF WIDTH (mm)		
mean	3.6	3.2
std deviation	0.58	0.30
LSD/sig	0.44	P≤0.01
FLOWER DIAMETER (mm)		
mean	51.37	41.85
std deviation	3.84	1.51
LSD/sig	3.02	P≤0.01

DIPLADENIA*Mandevilla* x *amabilis***'Beauty Queen'**

Application No: 96/045 Accepted: 28 Mar 1996.
 Applicant: **Rybay Pty Ltd, T/as Sunset Nursery**,
 Silverdale, NSW.

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

Description (Table 19, Figure 42) Plant: woody twiner, habit indeterminate. Leaf: large, length 146.62mm, width 101.99mm, arrangement opposite, shape ovate-oblong, acuminate. Flower: large, showy, lobes rounded, short-acuminate; colour on upper side at opening pale bluish-pink RHS 68A-68D fading with age to RHS 69D, underside one colour RHS 69B; corolla tube funnel form, colour internal RHS 62B/2D at 1-2 days and RHS 65C/4D at 3-5 days changing from top to base, external RHS 2D at 1-2 days and RHS 4D at 3-5 days.

Origin Seedling selection: 'Alice du Pont'. Breeder: Mr Joe de Aquino, Silverdale, NSW. Selection criteria: plant form, vigour, leaf colour, flower form and colour.

Comparative Trial Comparators: 'Magic Dream', 'Alice du Pont'. Location: Sunset Nursery, Silverdale, NSW, Nov 1995 - Apr 1996. Conditions: plants grown in mulched soil in open raised beds, irrigated as required. Trial design: ten spaced plants, 70cm apart, in ungrouped randomised block. Measurements: random sampling from all ten plants.

Prior Applications and Sales Nil.

Description: **John D Oates, Plant Breeding Institute, Cobbitty, NSW.**

Table 19 *Mandevilla* varieties

	'Beauty Queen'	*'Magic Dream'
LEAF LENGTH (mm)		
mean	146.62	129.54
std deviation	8.08	12.63
LSD/sig	14.32	P≤0.01
LEAF WIDTH (mm)		
mean	101.99	86.4
std deviation	10.91	8.19
LSD/sig	12.21	P≤0.01
FLOWER DIAMETER (mm)		
mean	101.60	94.10
std deviation	4.33	6.30
LSD/sig	6.88	P≤0.01
FLOWER: FUSED COROLLA LENGTH (mm)		
mean	51.60	45.30
std deviation	1.43	1.3.09
LSD/sig	2.77	P≤0.01
PETAL COLOUR RHS		
upper side	68D 1-2 days 69D 3-5 days	65C
COROLLA THROAT COLOUR (RHS) top - base		
inside	62B/2D 1-2 days 65C-4D 3-5 days	68A/2C
outside	2D 1-2 days 4D 3-5 days	155C

'Magic Dream'

Application No: 95/272 Accepted: 22 Nov 1995.

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

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

Description (Table 20, Figure 42) Plant: woody twiner, habit indeterminate. Leaf: small, length 129.54mm, width 86.4mm, opposite, ovate-oblong, acuminate. Flower: large, showy, lobes rounded, short-acuminate; colour on upper side at opening pale blush-pink RHS 65C, maintaining or losing colour slightly with age, underside one colour RHS 69B; corolla tube funnel form, colour internal RHS 68A/2C changing from top to base, external RHS 155C.

Origin Seedling selection: 'Alice du Pont'. Breeder: Mr Joe de Aquino, Silverdale, NSW. Selection criteria: plant form, vigour, leaf colour, flower form and colour.

Comparative Trial Comparator: 'Alice du Pont'. Location: Sunset Nursery, Silverdale, NSW, Nov 1995 - Apr 1996. Conditions: plants grown in mulched soil in open raised beds, irrigated as required. Trial design: ten spaced plant, 70cm apart, in ungrouped randomised block. Measurements: random sampling from all ten plants.

Prior Applications and Sales Nil.

Description: **John D Oates, Plant Breeding Institute, Cobbitty, NSW.**

Table 20 *Mandevilla* varieties

	'Magic Dream'	*'Alice du Pont'
FLOWER DIAMETER (mm)		
mean	94.10	108.9
std deviation	6.30	3.35
LSD/sig	6.88	P≤0.01
FLOWER: FUSED COROLLA LENGTH (mm)		
mean	45.30	49.1
std deviation	3.093	1.853
LSD/sig	2.773	P≤0.01
PETAL COLOUR (RHS)		
upper side	65C	73B-73C
underside		
larger stripe	69B	68D
narrow stripe	-	66D
COROLLA THROAT COLOUR (RHS) top to base		
inside	68A-2C	71C, 48A-7B
outside	155C	63C
PEDUNCLE COLOUR (RHS)		
	46A	143C

DIPLADENIA*Mandevilla (syn Dipladenia) sanderi***'Pale Face'**

Application No: 94/222 Accepted: 21 Nov 1994.

Applicant: **Vic Levey**, D'Aguilar, QLD.

Description (Table 21, Figure 41) Plant: vegetatively similar to other Dipladenia varieties but differs in the range of colours and colour combinations that occur in different stages of flower maturity on the same plant. Flower: length long (52.5 mm), diameter medium (77.4 mm); petal colour from RHS 61C -155B, splashes RHS 63B-155D, corolla throat RHS 14B.

Origin Vegetative sport: 'Red Riding Hood'. Breeder: Vic Levey, D'Aguilar, QLD. Selection criteria: unusual range of flower colours within a plant. Propagation: vegetative through 5 generations.

Comparative Trial Comparators: 'Scarlet Pimpernel' [Ⓛ], 'My Fair Lady'. Location: Vic Levey's Nursery, D'Aguilar, QLD, Aug 1995 - Dec 1995. Conditions: Plants were raised in a mixture of pine-bark and washed sand in pots in open beds. Trial design: unreplicated rows. Measurements: random samples selected from each of 90 plants arranged in blocks.

Prior Applications and Sales Nil.

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

Table 21 *Mandevilla (Dipladenia) varieties*

	'Pale Face'	**Scarlet Pimpernel' [Ⓛ]	**My Fair Lady'
LEAF LENGTH (mm)			
mean	56.5	52.7	55.1
std deviation	3.41	3.45	5.34
LSD/sig	2.839	P≤0.01	ns
FLOWER DIAMETER (mm)			
mean	77.4	76.2	84.2
std deviation	3.85	5.86	5.51
LSD/sig	4.55	ns	P≤0.001
FLOWER LENGTH (mm)			
mean	52.5	47.9	50.6
std deviation	2.19	2.17	1.92
LSD/sig	1.854	P≤0.001	P≤0.001
FLOWER COLOURS RHS			
petals	61C/62C/ 62D/155B	45A	155B
petal splashes	63B/155D	absent	absent
corolla throat	14B	14B	14B

GREVILLEA*Grevillea hybrid***'Landcare' syn 'Piccolo Pink'**

Application No. 94/005 Accepted: 18 Jan 1994.

Applicant: **Don Burke**, Kenthurst, NSW.

Description (Table 22, Figure 34) Plant: prostrate hybrid ornamental grevillea maturing to semi upright habit, flowering mid spring. Leaf: pinnatifid, small, petiole short, fine hairs on both upper and lower surfaces, new foliage silvery, lower mature leaf greyed yellow, upper mature leaf yellow green. Inflorescence: cylindrical raceme, length 10 cm, perianth red inside red outside, pollen presenter yellow orange; style white, long.

Origin Controlled pollination: 'Misty Pink' (*Grevillea banksii* var. *foresterii* x *Grevillea sessilis*) x 'Ruby Red' *Grevillea banksii* (prostrate form). Breeder: Don Burke, Kenthurst, NSW. Selection criteria: compact ground covering habit, attractive flower colour. Propagation: vegetative.

Comparative Trial Comparator: 'Misty Pink'. Location: Dural, NSW, May 1994 - Oct 1995. Conditions: plants propagated by stem cuttings in peat/perlite potting mix under glass with intermittent misting, at 12 weeks transplanted to 200 mm diameter pots with soilless growing medium, outdoors, overhead hand watering as required. Trial design: completely random. Measurements: 10 random samples per variety were taken from each of ten plants.

Prior Applications and Sales Nil.

Description: **Angus Stewart**, New World Plants Pty Ltd, Narara, NSW.

Table 22 *Grevillea varieties*

	'Landcare'	**'Misty Pink'
LEAF LENGTH (mm)		
mean	87.10	158.80
std deviation	10.24	14.34
LSD/sig	14.98	P≤0.01
LEAF WIDTH (mm)		
mean	61.10	130.00
std deviation	6.12	30.46
LSD/sig	26.43	P≤0.01
PETIOLE LENGTH (mm)		
mean	24.00	38.70
std deviation	4.32	4.32
LSD/sig	5.20	P≤0.01
LEAF COLOUR (RHS)		
upper surface	yellow green 147A	yellow green 147A
lower surface	greyed yellow 160D	green white 157B

Table 22 *Grevillea* Varieties - continued

LEAF LOBES		
number of lobes	6-8	7-10
PERIANTH COLOUR (RHS)		
inside surface	red 52A	red 52B
outside surface	red 43D	red 51D
STYLE LENGTH (mm)		
mean	37.70	34.70
std deviation	1.70	0.67
LSD/sig	1.56	P≤0.01
POLLEN PRESENTER (RHS)		
colour	yellow orange 15A	yellow orange 15C

HYBRID RYEGRASS*Lolium hybrid***'Maverick Gold' syn 'CSLh931'**

Application No: 95/166 Accepted: 20 Jun 1995.

Applicant: **Wrightson Seeds Limited**, Christchurch, New Zealand.Agent: **Wrightson Seeds Australia (Pty) Limited**, Seven Hills, NSW.

Description (Table 23) Plant: diploid ($2n = 2x = 14$), medium-late heading (25.3 days). Stem: long (1021 mm), nodes 6.8 per stem. Leaf: flag width intermediate, (8.1 mm), length long (207 mm). Spike: length long (296mm); spikelet length medium (18.2 mm), number medium (32).

Table 23 *Lolium* varieties

	'Maverick Gold'	*'Grasslands Impact'	*'Ceres Geyser'	*'Grasslands Manawa'
HEADING DATE (days after 5 Oct)				
mean	25.3	31.2	23.0	22.8
std deviation	4.27	7.52	3.9	3.66
LSD/sig	1.73	P0.01	P0.01	P0.01
STEM LENGTH (mm)				
mean	1021.2	756.5	885.8	955.6
std deviation	86.8	115.3	104.3	116.7
LSD/sig	49.2	P0.01	P0.01	P0.01
FLAG LEAF WIDTH (mm)				
mean	8.1	6.4	8.6	8.2
std deviation	1.31	1.19	1.41	1.39
LSD/sig	0.49	P0.01	P0.01	ns
FLAG LEAF LENGTH (mm)				
mean	207.2	159.2	209.1	189.2
std deviation	42.88	49.60	37.86	43.58
LSD/sig	15.93	P0.01	ns	P0.01
LEAF SHEATH ANTHOCYANIN (1 = absent or very weak, 9 = very strong)				
	2.1	1.3	3.1	2.7
SPIKE LENGTH (mm)				
mean	295.8	206.4	251.1	299.1
std deviation	38.35	36.15	50.04	47.68
LSD/sig	15.4	P0.01	P0.01	ns
SPIKELET LENGTH (mm)				
mean	18.2	15.2	18.5	19.0
std deviation	2.10	2.31	2.81	2.71
LSD/sig	0.82	P0.01	ns	ns
NUMBER OF SPIKELETS PER SPIKE				
mean	32.0	27.0	33.5	32.5
std deviation	4.92	5.50	5.93	4.38
LSD/sig	1.84	P0.01	ns	ns

Origin Polycross mating: remnant seeds of two half-sib families. 1993. Breeder: Wrightson Seeds Limited, Christchurch, New Zealand. Selection criteria: improved winter growth, improved persistence under grazing, reduced aftermath heading. Propagation: seed through 4 generations.

Comparative Trial Comparators: 'Grasslands Impact', 'Ceres Geyser', 'Grasslands Manawa'. Location: Lincoln, New Zealand, Mar 1995 - Jan 1996. Conditions: plants raised in potting mix in multicell trays under glass, then space transplanted to the field. Trial design: 100 plants arranged in randomised complete blocks with 10 replicates, 10 plants per replicate. Measurements: on all 100 plants.

Prior Applications and Sales

Country	Year	Status	Name Applied
New Zealand	1995	pending	'Maverick Gold'

Description: Michael Norriss, Wrightson Seeds, Christchurch, New Zealand.

IMPATIENS

Impatiens walleriana

'Golden Anniversary'

Application No: 94/007 Accepted: 31 Jan 1994.
Applicant: **Pixie Plants**, Devon Meadows, VIC.

Description (Table 24, Figure 23) Plant: small, spreading perennial herb. Stem: succulent, glabrous, anthocyanin slight, leaf arrangement alternate. Leaf: ovate, glabrous, variegated, margin crenate with tooth bristles, anthocyanin absent, petiole length medium (21mm). Flower: diameter small (33mm), solitary, double, spur length 24mm, anthocyanin absent, pedicels long (41mm); petals obovate, red purple basal spot RHS 74A, centre petals red purple RHS 73B-73C, outer petals red purple RHS 73D.

Origin Spontaneous mutation: *Impatiens walleriana* 'Double Pink' 1991. Breeder: John Churchus, Devon Meadows, VIC. Selection criteria: spreading habit, variegated leaf. Propagation: cuttage through four generations.

Comparative Trial Comparator: 'Double Pink' Location: Devon Meadows, VIC, Sep 1995 - Feb 1996. Conditions: plants raised as cuttings Sep 1995, transplanted to 200 mm hanging baskets Dec 1995, standard soilless media, unheated polythene covered house. Trial design: paired replicates. Measurements: twenty specimens from ten plants.

Prior Applications and sales Nil.

First sold Australia 1995.

Description: David Nichols, Devon Meadows, VIC

Table 24 *Impatiens* varieties

	'Golden Anniversary'	**'Double Pink'
PLANT		
habit	spreading	upright to spreading
stem anthocyanin	very slight	slight
PLANT HEIGHT (cm)		
mean	13.3	22.1
std deviation.	1.7	3.3
LSD/sig	3.0	P≤0.01
PLANT WIDTH (cm)		
mean	34.1	34.6
std deviation.	3.0	2.5
LSD/sig	3.3	P≤0.01
LEAF LENGTH (mm) largest two leaves		
mean	57.6	50.8
std deviation.	6.9	7.3
LSD/sig	5.4	P≤0.01
LEAF WIDTH (mm) largest two leaves		
mean	33.7	40.2
std deviation	3.2	3.1
LSD/sig	2.7	P≤0.01
LEAF LENGTH:WIDTH RATIO largest two leaves		
mean	1.7	1.3
std deviation	0.2	0.2
LSD/sig	0.1	P≤0.01
PETIOLE LENGTH (mm) largest 2 leaves		
mean	21.1	29.4
std deviation	5.7	4.8
LSD/sig	4.3	P≤0.01
LEAF (RHS)		
centre colour	147A-146B	147A
marginal colour	160A	147A

'Golden Girl'

Application No: 93/108 Accepted: 1 Apr 1993.
Applicant: **Pixie Plants**, Devon Meadows, VIC.

Description (Table 25, Figure 22) Plant: small, spreading perennial herb. Stem: succulent, glabrous, anthocyanin very slight, leaf arrangement alternate. Leaf: ovate, glabrous, variegated, centres RHS 147A-146B, outside RHS 160A, margin crenate with tooth bristles, anthocyanin absent, petiole length medium (27mm). Flower: diameter small (28mm), solitary, double, spur length 24mm, anthocyanin slight, pedicels long (35mm); petals obovate, basal spot red purple RHS 74A, centre petals red RHS 48B-48C, outer petals red RHS 48D.

Origin Spontaneous mutation: *Impatiens walleriana* 'Double Peach' 1991. Breeder: John Churchus, Devon Meadows, VIC. Selection criteria: spreading habit, variegated leaf. Propagation: cuttage through four generations.

Comparative Trial Comparator: 'Double Peach'
Location: Devon Meadows, VIC, Sep 1995 - Feb 1996.
Conditions: plants raised as cuttings Sep 1995, transplanted to 200 mm hanging baskets Dec 1995, standard soilless media, unheated polythene covered house. Trial design: paired replicates. Measurements: twenty specimens from ten plants.

Prior Applications and sales Nil.
First sold Australia 1993.

Description: David Nichols, Devon Meadows, VIC

Table 25 *Impatiens* varieties

	'Golden Girl'	*'Double Peach'
PLANT habit	spreading	upright to spreading
stem anthocyanin	very slight	slight
PLANT HEIGHT (cm)		
mean	12.9	18.6
std deviation.	2.1	2.2
LSD/sig	1.4	P≤0.01
PLANT WIDTH (cm)		
mean	29.2	38.5
std deviation.	2.0	2.1
LSD/sig	1.3	P≤0.01
LEAF WIDTH (mm) largest two leaves		
mean	31.3	37.0
std deviation.	3.4	3.3
LSD/sig	2.6	P≤0.01
LEAF (RHS)		
centre colour	147A-146B	147A
marginal colour	160A	147A

KANGAROO PAW

Anigozanthos pulcherrimus x *Anigozanthos rufus*

'Sunglow'

Application No: 93/227 Accepted: 20 Oct 1993.
Applicant: **Sunglow Flowers Pty Ltd**, Mundijong, WA.

Description (Table 26, Figure 15) Plant: tall growing, upright, perennial, producing many strongly branched (9-11 branches/stem) flowering stems in spring. Stem: length 1116mm, length of lowest branch 227mm. Leaf: length 426mm, width 9.7mm, grey green RHS 189A, weak-medium pubescence on margins. Inflorescence: numerous, 8-9 flowers per inflorescence. Flower: perianth tubes length medium 20mm, inside colour yellow-green RHS 150C, pubescence yellow RHS 3B; ovary pubescence yellow RHS 9A, pedicel pubescence RHS 8A, early flowering period late Sep - early Nov.

Origin Spontaneous mutation: unnamed orange cross (*Anigozanthos pulcherrimus* pure yellow x *Anigozanthos rufus*), 1993. Breeder: PA Watkins, Mundijong, WA.

Selection criteria: early flowering, pure yellow, tall growth, long branches. Propagation: tissue culture for five generations.

Comparative Trial Comparators: pure yellow form of *Anigozanthos pulcherrimus* (APY), orange cross between APY and *Anigozanthos rufus* (APO), *Anigozanthos pulcherrimus* normal form (AP), *Anigozanthos flavidum* hybrid 'Yellow Gem' (YG). Location: Mundijong, WA, 1994 - 1996. Conditions: all plants derived from tissue culture and of same age, plant spacing 1.2m x 0.5m, sandy soil, drip irrigated and fertigated, mechanical weed control. Trial design: 15 plants of each variety in an unreplicated trial. Measurements: 20 samples randomly selected from each variety.

Prior Applications and Sales Nil.

Description: Philip Watkins, **Sunglow Flowers Pty Ltd**, Mundijong, WA.

LANTANA

Lantana montevidensis

'Malans Gold'

Application No: 94/178 Accepted: 15 Aug 1994.
Applicant: **Malanseuns Pleasure Plants**, Rosslyn, Republic of South Africa.
Agent: **Bob Pearce, Pearce's Nurseries Pty Ltd**, McLeans Ridge, NSW.

Description (Table 27, Figure 40) Plant: shrub, weak trailing branches. Leaf: opposite or whorled, ovate, colour RHS 153 D. Flower: on axillary or terminal spikes, calyx small, corolla almost equally 4-5 lobed, stamens 4.

Origin Spontaneous mutation: *Lantana montevidensis*. Breeder: Malanseuns Pleasure Plants, Rosslyn, Republic of South Africa. Selection criteria: leaf colour, shade tolerance and humidity tolerance. Propagation: vegetative.

Comparative Trial Comparator: *Lantana montevidensis*. Location: McLeans Ridges, NSW, Sep - Nov 1995. Conditions: plants raised as cuttings Feb 1995, transplanted to 200mm pots Jul 1995, standard soilless potting medium, ambient North East NSW conditions. Trial design: grouped replicates. Measurements: 10 random samples of each variety.

Prior Applications and Sales

First sold South Africa 1994
First sold United Kingdom 1993

Description: **Bob Pearce, Pearce's Nurseries Pty Ltd**, McLeans Ridge, NSW.

Table 26 *Anigozanthos* varieties

	'Sunglow'	*Yellow Kangaroo Paw	*Orange Kangaroo Paw	**Yellow Gem'	* <i>Anigozanthos pulcherrimus</i>
PLANT HEIGHT (mm) to top of inflorescence					
mean	1116	789	1147	1966	1383
std deviation	62.4	45.4	68.9	56.0	127.3
LSD/sig	45	P0.01	ns	P0.01	P0.01
LENGTH OF LOWEST BRANCH ON STEM (mm)					
mean	227	141	216	402	272
std deviation	27	18	22	33	41
LSD/sig	17	P0.01	ns	P0.01	P0.01
LEAF LENGTH (mm)					
mean	426	338	439	848	485
std deviation	20.6	12.4	17.3	77.3	22.1
LSD/sig	22.3	P0.01	ns	P0.01	P0.1
LEAF WIDTH (mm)					
mean	9.7	14.4	9.9	19.7	17.3
std deviation	0.66	1.35	0.72	0.81	1.03
LSD/sig	0.58	P0.01	ns	P0.01	P0.01
LEAF					
colour	grey green	grey green	grey green	green	green
RHS	189A	189A	189A	137B	137C
margin pubescence	weak-medium	very weak	weak-medium	absent-very weak	very weak
PERIANTH TUBE LENGTH (mm)					
mean	20	16.9	20	20	25
LSD/sig	0.92	P0.01	ns	ns	P0.01
PERIANTH TUBE					
pubescence	yellow	yellow	red	yellow	yellow
colour RHS	3B	5A	44A	12A	6A
inner side	green	green	green	green	green
colour RHS	150C	149D	145B	143A	150C
OVARY					
pubescence	yellow	yellow	red	yellow	yellow
colour RHS	9A	12A	44A	12A	6A
PEDICEL					
pubescence	yellow	yellow	greyed purple	orange	greyed purple
colour RHS	8A	8A	183B	12B	183B
PERIOD					
first harvest	30/9	2/11	28/9	24/10	6/11
50% harvest	15/10	24/11	15/10	5/11	27/11
90% harvest	6/11	4/12	6/11	22/11	14/12

Table 27 *Lantana* Varieties

	'Malans Gold'	* <i>L. montevidensis</i>
LEAF LENGTH (mm)		
mean	46.90	51.40
std deviation	3.14	2.27
LSD/sig	3.13	P≤0.01
LEAF WIDTH (mm)		
mean	25.00	28.10
std deviation	3.30	1.79
LSD/sig	3.03	P≤0.01
NODE LENGTH (mm)		
mean	33.97	74.71
std deviation	4.94	8.46
LSD/sig	7.91	P≤0.01

LILLY PILLY *Acmena smithii*

'Hedgemaster'

Application No: 94/004 Accepted: 18 Jan 1994.
Applicant: **Don Burke**, Kenthurst, NSW.

Description (Table 28, Figure 35) Plant: growth habit compact, dwarf. Leaf: lanceolate, small, green; petiole short, internode small. Flower: nil.

Origin Seedling selection: *Acmena smithii* (rheophytic form). Breeder: Don Burke, Kenthurst, NSW. Selection criteria: compact growth habit. Propagation: vegetative through several generations.

Comparative Trial Comparator: *Acmena smithii* (rheophytic form). Location: Dural, NSW, May 1994 - Oct 1995. Conditions: plants propagated by 2.5 cm stem cuttings in peat/perlite potting mix under glass with intermittent misting, at 10 weeks transplanted to 140 mm diameter pots with soilless growing medium, outdoors, overhead hand watering as required. Trial design: completely random. Measurements: 10 random samples per variety taken from each of ten plants.

Prior Applications and Sales Nil.

Description: **Angus Stewart**, New World Plants Pty Ltd, Narara, NSW.

Table 28 *Acmena* varieties

	'Hedgemaster'	* <i>Acmena smithii</i> (rheophytic form)
PLANT HEIGHT (mm)		
mean	119.50	368.00
std deviation	11.17	77.14
LSD/sig	66.31	P≤0.01

Table 28 *Acmena* Varieties - continued

LEAF LENGTH (mm)		
mean	20.1	39.2
std deviation	3.03	4.21
LSD/sig	4.42	P≤0.01
LEAF WIDTH (mm)		
mean	4.30	8.80
std deviation	0.67	1.40
LSD/sig	1.32	P≤0.01
INTERNODE LENGTH		
mean	4.00	13.40
std deviation	0.94	3.06
LSD/sig	2.73	P≤0.01
PETIOLE LENGTH (mm)		
mean	2.20	3.30
std deviation	0.42	0.48
LSD/sig	0.55	P≤0.01
LEAF COLOUR (RHS)		
upper surface	green 137A-137B	green 137A
lower surface	green 137B	

MARGUERITE DAISY *Argyranthemum frutescens*

'Carmella' syn 'M2/20'

Application No: 96/042 Accepted: 16 Apr 1996.
Applicant: **Frank Hammond**, Warren Park Nursery, Narre Warren East, VIC.

Description (Table 29, figure 33) Plant: size small to medium, habit upright. Stem: green, rigid, glabrous, foliage cover dense. Leaf: arrangement spiral, pinnatisect, serrate, glabrous, base acute, pinnules mainly alternate, yellow-green RHS 147A. Inflorescence: corymb. Capitulum: disk florets medium, single, yellow-orange; ray florets medium, straight, rounded at tips, initially purple fading to white; basal spot small, white.

Origin Controlled pollination: 'Blanche' x 'Rollasons Red'. Breeder: Frank Hammond, Narre Warren East, VIC. Selection criteria: compact dwarf growth habit, dense foliage, flower colour. Propagation: vegetative through four generations.

Comparative Trial Comparators: 'Blanche', 'Rollasons Red'. Location: Narre Warren East, VIC, Oct 1995 - May 1996. Conditions: plants propagated by cuttings in 140 mm, transplanted to 200 mm pots after 3 months into a standard soilless growing medium. Trial Design: split plot. Measurements: 20 random samples per variety taken from each of 10 plants.

Prior Applications and Sales Nil.

First sold Australia 15 Mar 1995.

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

Table 29 *Argyranthemum* varieties

	'Carmella'	'Gretel'	*'Rollasons Red'	*'Blanche'
PLANT HEIGHT (cm) LSD (P0.01) = 3.4				
mean	33.0a	31.5a	22.4b	23.1b
std deviation	2.4	0.9	4.2	2.5
PLANT WIDTH (cm) LSD (P0.01) = 4.4				
mean	49.6a	45.0b	36.0c	47.8b
std deviation	2.3	2.7	3.4	5.5
LEAF CHARACTERISTICS				
foliage density	dense	medium to dense	sparse	dense
pinnule arrangement	alternate	opposite	alternate	opposite
margin shape	serrate	crenate - serrate	serrate	crenate-serrate
LEAF LENGTH (mm) LSD (P0.01) = 7.0				
mean	56.3b	45.7c	88.9a	40.0c
std deviation	7.3	6.6	13.4	4.1
LEAF WIDTH (mm) LSD (P0.01) = 5.3				
mean	34.4b	25.7c	48.1a	22.0c
std deviation	4.5	2.9	11.1	2.5
CAPITULUM DIAMETER (mm) LSD (P0.01) = 5.1				
mean	41.8b	36.5c	51.2a	34.3c
std deviation	7.1	3.3	3.9	3.5
CAPITULUM HEIGHT (mm) from top of capitulum to base of involucre LSD (P0.01) = 2.0				
mean	11.9b	11.8b	21.8a	9.6c
std deviation	0.9	0.9	3.2	1.3
DISK DIAMETER (mm) LSD (P0.01) = 1.4				
mean	14.0b	12.2c	17.0a	11.8c
std deviation	0.7	1.1	1.2	0.8
DISK COLOUR (RHS)				
colour	yellow-orange 14A, 17A	yellow-orange 17A	purple 77A, 79A	yellow 12A
RAY FLORET NUMBER LSD (P0.01) = 2.51				
mean	17.8 b	13.8 c	22.4 a	18.2 b
std deviation	1.48	1.64	1.67	0.84
RAY FLORET LENGTH (mm) LSD (P0.01) = 3.0				
mean	18.4b	14.4c	24.0a	14.4c
std deviation	1.7	0.9	3.5	1.8
RAY FLORET COLOUR (RHS)				
upper surface initial	purple 75B-D	purple 78B-C	red-purple 64B	white 155D
lower surface initial	purple 75C-D	purple 75C	red purple 70B	white 155D
upper surface with fading	white 155D	white 155D	purple 75B	white 155D
BASAL SPOT				
presence	present	present	present	absent
size	small	medium	large	-
colour upper surface	white	white	green-yellow	-
colour lower surface		green-yellow		

Means followed by the same letter are not significantly different at P0.01.

'Gretel' syn 'M2/16'

Application No: 95/039 Accepted: 6 Feb 1995.

Applicant: **Frank Hammond**, Warren Park Nursery, Narre Warren East, VIC.

Description (Table 29, figure 32) Plant: size medium, habit upright. Stem: green, rigid, glabrous. Leaf: arrangement spiral, pinnatisect, crenate to serrate, glabrous, base acute, pinnules mainly opposite, yellow-green RHS 146A. Inflorescence: corymb. Capitulum: disk florets small to medium, single, yellow-orange; ray florets short, straight, rounded at tips, initially purple fading to white; basal spot medium size, upper side white, lower side green-yellow.

Origin Controlled pollination: 'Blanche' x 'Rollasons Red'. Breeder: Frank Hammond, Narre Warren East, VIC. Selection criteria: compact dwarf growth habit, flower colour. Propagation: vegetative through four generations.

Comparative Trial Comparators: 'Blanche', 'Rollasons Red'. Location: Narre Warren East, VIC, Oct 1995 - May 1996. Conditions: plants propagated by cuttings in 140 mm pots, transplanted to 200 mm pots after 3 months into a standard soilless growing medium. Trial Design: split plot. Measurements: 20 random samples per variety taken from each of 10 plants.

Prior Applications and Sales Nil.Description: **David Nichols**, Devon Meadows, VIC.**'Primrose'**

Application No: 95/017 Accepted: 24 Jan 1995.

Applicant: **Frank Hammond**, Warren Park Nursery, Narre Warren East, VIC.

Description (Table 30, figure 31) Plant: size small to medium, habit upright. Stem: green, rigid, glabrous. Leaf: arrangement spiral, pinnatisect, crenate to serrate, glabrous, base acute, pinnules mainly opposite to alternate, yellow-green RHS 146A. Inflorescence: corymb. Capitulum: disk florets medium, single, yellow; ray florets short, straight, rounded at tips, yellow, basal spot absent.

Origin Open pollination: 'Harvest Gold'. Breeder: Frank Hammond, Narre Warren East, VIC. Selection Criteria: compact dwarf growth habit, flower colour. Propagation: vegetative through four generations.

Comparative Trial Comparator: 'Harvest Gold'. Location: Narre Warren East, VIC. Oct 1995 - May 1996. Conditions: plants propagated by cuttings in 140 mm pots, transplanted to 200 mm pots after 3 months into a standard soilless growing medium. Trial Design: split plot. Measurements: 20 random samples per variety taken from each of 10 plants.

Prior Applications and Sales Nil.

First sold Australia 1995.

Description: **David Nichols**, Devon Meadows, VIC.**Table 30 *Argyranthemum* varieties**

	'Primrose'	**'Harvest Gold'
PLANT HEIGHT (cm)		
mean	22.3	27.1
std deviation	1.3	2.8
LSD/sig	2.7	P≤0.01
LEAF LENGTH (mm) from base of peduncle of longest flower stem		
mean	42.7	76.5
std deviation	4.7	5.9
LSD/sig	4.5	P≤0.01
LEAF WIDTH (mm) from base of peduncle of longest flower stem		
mean	27.2	39.0
std deviation	3.5	5.1
LSD/sig	3.6	P≤0.01
RAY FLORET NUMBER		
mean	20	16
std deviation	0	1.4
LSD/sig	1.90	P≤0.01
LENGTH OF RAY FLORET (mm)		
mean	14.7	18.4
std deviation	1.3	2.3
LSD/sig	2.0	P≤0.01
RAY FLORET COLOUR (RHS)		
upper surface initial	green-yellow, yellow 1D, 4C	yellow 4B
lower surface initial	yellow 4D	yellow 4C
upper surface with fading	yellow 4D	yellow 4D

'Sugar and Ice' syn 'X93040'

Application No: 95/135 Accepted: 2 May 1995.

Applicant: **Protected Plant Promotions Pty Ltd**, Macquarie Fields, NSW and**The University of Sydney, Plant Breeding Institute**, Cobbitty, NSW.Agent: **The University of Sydney, Plant Breeding Institute**, Cobbitty, NSW.

Description (Table 31, Figure 29) Plant: diploid (2n=18), compact, height 39.8cm, diameter 105.0cm, early flowering. Leaf: green, large, mature length 60.5mm, width 23.4mm, bipinnatisect, leaf serration medium; colour adaxial RHS 137B, abaxial RHS 137C. Flower: anemone

type, size large, diameter 32.9mm; disk floret tubular, petalous; ray floret colour white RHS 155C, long, narrow, straight longitudinal axis, tip shape dentate.

Origin Controlled pollination: 'Prostrate Double Pink' x 'Breeder's reference AB5003' 1993. Breeder: TM Cunneen, University of Sydney, Plant Breeding Institute, Cobbitty, NSW. Selection criteria: compact growth habit, flower shape, colour and size. Propagation: vegetative for four generations.

Comparative Trial Comparator: 'Pearl'. Location: University of Sydney, Plant Breeding Institute, Cobbitty, NSW, May 1995 - Feb 1996. Conditions: plants grown in mulched soil in raised beds in open conditions and irrigated as required. Trial design: ungrouped randomised design. Measurements: ten random samples from fifty plants arranged at 120cm centres.

Prior Applications and Sales First Sold Australia 1995.

Description: **Thomas M Cunneen, Plant Breeding Institute, Cobbitty, NSW.**

Table 31 *Argyranthemum* varieties

	'Sugar and Ice'	*'Pearl'
PLANT HEIGHT (cm)		
mean	39.27	67.0
std deviation	1.91	1.00
LSD/sig	2.61	P≤0.001
LEAF COLOUR (RHS) adaxial surface		
	137B	137A
LEAF LENGTH (mm)		
mean	60.53	43.83
std deviation	6.44	4.26
LSD/sig	8.74	P≤0.001
LEAF WIDTH (mm)		
mean	23.43	18.8
std deviation	3.52	3.45
LSD/sig	2.38	P≤0.001
FLOWER TYPE		
	anemone	double
FLOWER DIAMETER (mm)		
mean	32.9	26.4
std deviation	1.69	1.58
LSD/sig	0.11	P≤0.001
RAY PETAL LENGTH (mm)		
mean	9.67	8.78
std deviation	0.83	0.59
LSD/sig	0.63	P≤0.01
RAY PETAL LENGTH:WIDTH RATIO		
mean	2.19	2.00
std deviation	0.06	0.04
LSD/sig	0.19	P≤0.01

MIRROR PLANT *Coprosma repens*

'Rainbow Surprise'

Application No: 95/176. Accepted: 25 Jul 1995.

Applicant: **Richard Ware**, Napier, New Zealand.

Agent: **Bob Pearce, Pearce's Nurseries Pty Ltd**, McLeans Ridge, NSW.

Description (Table 32, Figure 39). Plant: evergreen spreading shrub, bark light brown, branchlets yellowish-brown. Leaf: oval-elliptic, glossy, opposite; mottled red RHS 41B, green RHS 137A, yellow RHS 151C.

Origin Spontaneous mutation: *Coprosma repens* 'Brunette'. Breeder: Richard Ware, Napier, New Zealand. Selection criteria: compact habit and distinct leaf variegation, ease of propagation. Propagation: vegetative.

Comparative Trial Comparator: 'Pride'. Location: McLeans Ridges, NSW, Sep - Nov 1995. Conditions: plants raised as cuttings Feb 1995, transplanted to 200mm pots Jul 1995, standard soilless potting medium, ambient North East NSW conditions. Trial design: grouped replicates. Measurements: 10 random samples of each variety.

Prior Applications and Sales Nil.

Description: **Bob Pearce, Pearce's Nurseries Pty Ltd**, McLeans Ridge, NSW.

Table 32 *Coprosma* varieties

	'Rainbow Surprise'	*'Pride'
LEAF LENGTH (mm)		
mean	24.83	39.46
std deviation	1.76	4.04
LSD/sig	3.56	P≤0.01
LEAF WIDTH (mm)		
mean	9.08	13.94
std deviation	1.10	1.14
LSD/sig	1.28	P≤0.01
PLANT HEIGHT (mm)		
mean	237.0	313.5
std deviation	23.71	31.89
LSD/sig	32.07	P≤0.01
INTERNODE LENGTH (mm)		
mean	20.94	31.45
std deviation	2.31	2.98
LSD/sig	3.05	P≤0.01

NECTARINE

Prunus persica var. *nucipersica*

'April Glo' syn '39GA188'

Application No: 94/163 Accepted: 27 Jul, 1994.
 Applicant: **Zaiger's Inc. Genetics**, Modesto, California, USA.
 Agent: **Fleming's Nurseries & Associates Pty Ltd**, Monbulk, VIC.

Description (Table 33, Figure 45) Plant: large, upright tree, flowering late Jul to late Aug for 2 to 3 weeks. Leaf: length 14.7cm. Flowering shoot: dense anthocyanin colouration (60-90%). Flower: calyx orange; petals 5, elongated; stigma above anthers; ovary pubescence absent; stamen pollen present. Fruit: flesh firm, ground-colour yellow-orange RHS 15C. Seed: clingstone, anthocyanin colouration around stone absent.

Origin Controlled pollination: '4E467LC' x '26G520'. Breeder: Leith Gardner, Zaiger's Inc. Genetics, California, USA. Selection criteria: good fruit quality, early maturity and low winter chilling requirement. Propagation: by budding.

Comparative Trials Comparators: 'Earliglo' and 'May Glo'. Location: Fleming's Nurseries, Monbulk, Jul 1993 - Dec 1995. Conditions: all varieties were propagated by budding onto Nemaguard rootstock, planted in a virus tested orchard. Measurements: 20 random samples of each variety selected from at least 9 specimen trees.

Prior applications and sales First sold USA 1990.

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

'Earliglo' syn '62RA286'

Application No. 95/121 Accepted: 4 Apr 1995.
 Applicant: **Zaiger's Inc. Genetics**, Modesto, California, USA.
 Agent: **Fleming's Nurseries & Associates Pty Ltd**, Monbulk, VIC.

Description (Table 33, Figure 45) Plant: large, upright tree, growth vigorous, foliage density medium, flowering late Jul for three weeks. Stem: trunk medium to large, brown to greyish brown. Flowering shoots: anthocyanin weak, lenticels medium size and number. Leaf: smooth, margin crenate, dark green, anthocyanin absent; petiole nectaries number 2, kidney shaped, on upper portion. Flower: calyx orange, petals 5, stigma above anthers, pollen present, ovary pubescence absent. Fruit: skin tough, thickness medium; flesh firm, juice moderate, mild-sub acid flavour. Seed: clingstone, large, obovoid, colour light brown, very slight tendency to split, anthocyanin colouration around stone absent.

Origin: Controlled pollination: '37G870' peach x 'May

Glo' nectarine. Breeder: Leith Gardner, Zaiger's Inc. Genetics, California, USA Selection criteria: regular and heavy bearer of medium-size fruit, early in the season (low chilling requirements, approx. 200 hours), firm flesh, skin colour, good flavour and eating quality, good shipping and storage qualities. Propagation: by budding through several generations.

Comparative Trials: Comparators: 'April Glo', 'May Glo'. Location: Fleming's Nurseries, Monbulk, VIC, Jul 1994 - Jan 1996. Conditions: propagated by budding onto peach rootstock. Measurements: 20 random samples selected from 5 specimen trees of each variety.

Prior applications and sales

Country	Year	Status	Name applied
USA	1994	Granted	'Earliglo' nectarine

First sold Dec 1990 USA.

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

Table 33 Prunus varieties

	'April Glo'	'Earliglo'	**'May Glo'
WINTER CHILLING REQUIREMENT (hours)			
	low	low	low
	200	200	300
LEAF BLADE SIZE			
	large	medium	small
LEAF BLADE: WIDTH (cm) LSD (P≤0.01)= 0.415			
mean	3.4a	3.2a	2.7b
std deviation	0.4	0.5	0.4
LEAF BLADE: LENGTH (cm) LSD (P≤0.01)= 1.534			
mean	14.7a	12.5b	11.7b
std deviation	1.4	1.8	1.5
LEAF LENGTH: WIDTH RATIO (cm) LSD (P≤0.01)= 0.353			
mean	4.3a	3.9b	4.3a
std deviation	0.2	0.5	0.4
PETIOLE LENGTH (cm) LSD (P≤0.01)= 0.116			
mean	0.6a	0.8b	0.7b
std deviation	0.1	0.1	0.1
LEAF Anthocyanin colour			
	absent	absent	present
Nectaries	absent	present	present
FLOWERING SHOOT Bud density (per 25cm)			
	very dense	dense	dense
	25	12	10
FLOWER			
type	non showy	showy	showy
petal size	small	medium	medium
petal shape	elongate	round	elongate

Table 33 *Prunus* Varieties - continued

petal colour	pink	pink	pink
RHS	62B	62B	69A
margin colour red			
RHS	58B		
FRUIT			
Size	small	small	medium
Shape	obulate	round	ovate
Shape of tip	small depression	small depression	depressed point
Maturity date relative to 'Redhaven' Peach			
	- 31 days	- 25 days	- 22 days
SKIN			
groundcolour	grey-yellow	yellow	yellow
RHS	1B	12A	2B
overcolour	purple	red	purple
RHS	187E	45A	187E

Means followed by the same letter are not significantly different at $P \leq 0.01$

'Royal Glo' syn '78EE322'

Application No: 95/122 Accepted: 4 Apr 1995.

Applicant: **Zaiger's Inc. Genetics**, Modesto, California, USA.

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

Description (Table 34, Figure 43) Plant: large, upright tree, growth vigorous, flowering commencing early Aug. Leaf: size medium, anthocyanin absent, petioles large; nectaries present, kidney shaped. Flower: showy; petals 5, large, round, pink; calyx orange, stigma level with anthers, pollen present, ovary pubescence absent, anthocyanin colouration of flowering shoot weak, buds dense. Fruit: large, elliptic, pointed tip; skin groundcolour absent, overcolour purple, marbled, pubescent. Seed: small, round.

Origin Controlled pollination: '12GA1100' x 'May Glo' (31GA316). Breeder: Leith Gardner, Zaiger's Inc. Genetics, Modesto, California, USA. Selection criteria: heavy and regular production of large size fruit, early maturity of fruit, low winter chilling requirement, relatively uniform fruit size, high fruit quality with good handling and shipping qualities. Propagation: budding.

Comparative Trial Comparators: 'May Glo', 'Swanee'. Location: Fleming's Nurseries, Monbulk, VIC, Jun 1994 - Dec 1995. Conditions: 'Royal Glo' and comparators were propagated by budding onto Nemaguard rootstock, planted in a virus tested orchard. Measurements: 20 random samples selected from 12 specimen trees.

Prior applications and sales

Country	Year	Status	Name applied
USA	1993	Granted	'Royal Glo'

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

Table 34 *Prunus* varieties

	'Royal Glo'	*'May Glo'	*'Swanee'
WINTER CHILLING REQUIREMENT (hours)			
	low	low	moderate
	400	300	950-1000
LEAF BLADE SIZE			
	medium	small	large
LEAF BLADE LENGTH:WIDTH RATIO			
mean	4.1	4.3	3.8
std deviation	0.4	0.4	0.3
LSD/sig	0.26	ns	$P \leq 0.01$
FRUIT DIAMETER (mm)			
mean	58.6	53.7	61.4
std deviation	3	2.5	3
LSD/sig	2.53	$P \leq 0.01$	$P \leq 0.01$
TREE SIZE			
	large	large	small
LEAF anthocyanin colouration			
	absent	present	absent
FLOWERING SHOOT anthocyanin			
	sparse (25%)	dense (67%)	dense (90%)
FLOWER			
blossom time	early Aug	end Jul	mid Aug
petal size	large	medium	large
petal shape	round	elongate	oval
petal colour	pink	pink	pink
RHS	65B	69A	
FRUIT			
size	large	medium	large
shape	elliptic	ovate	round
shape of tip	pointed	depressed	pointed
SKIN			
groundcolour	absent	yellow	yellow
RHS		2B	10A
overcolour	purple	purple	red
RHS	187B	187B	53A
overcolour pattern	marbled	n/a	mottled
under skin anthocyanin	present	n/a	absent
FLESH			
groundcolour	yellow	yellow	yellow
RHS	12A	15C	14C
firmness	medium	firm	firm
anthocyanin	present	n/a	absent
anthocyanin around stone	present	absent	absent
stone size	small	n/a	large
stone adherence to flesh	absent	present	present
FRUIT MATURITY RELATIVE TO 'REDHAVEN'			
	-12 days	- 22 days	-2 days

PANDOREA
Pandorea jasminoides
'Southern Belle'

Application No: 95/110 Accepted: 27 Mar 1995.

Applicant: **Rod Parsons**, Hoddles Creek, VIC.

Description (Table 35, Figure 38) Plant: upright shrub to light climber with less vigorous climbing tendrils, habit dwarf, height 125.63 cm. Leaf: pinnate. Leaflet: 5-7 per leaf, ovate, glabrous, entire, tip acuminate. Inflorescence: terminal panicle. Flower: many, large, tubular; colour pink, throat darker pink, speckling pale yellow; flowering most of the year.

Origin Chance seedling: *Pandorea jasminoides*. Breeder: Rod Parsons, Hoddles Creek, VIC, 1991. Selection criteria: flower colour, size and number. Propagation: cutting through five generations.

Comparative Trial Comparators: 'Bower of Beauty', 'Lady Di'. Location: Hoddles Creek, Dec 1995 - Feb 1996. Conditions: plants propagated in pinebark/sand media in 15cm pots. Trial design: 9 randomised plants. Measurements: from 8 specimens selected at random.

Prior Applications and Sales Nil.
Description: **Mark Lunghusen**, Croydon North, VIC.
Table 35 *Pandorea* varieties

	'Southern Belle'	*'Bower of Beauty'	*'Lady Di'
PLANT HEIGHT	short	tall	tall
FLOWER DIAMETER (mm)			
mean	51.01	40.66	43.46
std deviation	6.77	6.35	4.01
LSD/sig	7.93	P≤0.01	P≤0.01
FLOWERS PER UMBEL			
mean	47.88	22.63	29.13
std deviation	9.52	8.83	3.72
LSD/sig	9.42	P≤0.01	P≤0.01
LENGTH OF FUSED COROLLA TUBE (mm)			
mean	31.00	23.66	26.11
std deviation	2.35	2.65	1.73
LSD/sig	2.91	P≤0.01	P≤0.01
WIDTH OF OPEN PETAL (mm)			
mean	22.05	19.59	20.36
std deviation	1.65	4.32	2.66
LSD/sig	3.76	P≤0.01	ns
PETAL COLOUR (RHS)			
	red purple 68A-B	white 65D	red purple 155D
FLOWER THROAT COLOUR (RHS)			
	red purple 67A	red purple 61A	yellow 11C

Table 35 *Pandorea* Varieties - continued

BUD COLOUR AT BUD BURST (RHS)	red purple 73B	red purple 73D	white 155A

COLOUR OF SPECKLING ON THROAT (RHS)	yellow 11D	absent	absent

PEACE LILY
Spathiphyllum
'Metalica' syn 'Ara 70'

Application No: 94/232 Accepted: 24 Jan 1995.

Applicant: **Paul Denis, Delta Green B.V.B.A.**, Lochristi, Belgium.Agent: **James SH McGeoch, Birkdale Nursery**, Birkdale, QLD.

Description (Table 36, Figure 37) Plant: rhizomatous, evergreen, perennial, unique foliage colour, height 50cm, width 35cm, basal stem robust, exposed, flowering late. Leaf: basal leaves small increasing in size with maturity, simple, ovate, acuminate, base acute to obtuse, arrangement generally diagonal; initial emerging blade colour abaxial surface in extreme cases greyish-yellow RHS 160D, changing to grey-green RHS 191A; adaxial surface shiny. Inflorescence: conspicuous, white, held at least 10cm-15cm above the foliage, long lasting.

Origin Spontaneous mutation: 'Gigant'. Breeder: Paul Denis, Delta Green B.V.B.A, Lochristi, Belgium. Selection criteria: foliage colour, plant growth habit. Propagation: tissue culture.

Comparative Trial Comparator: 'Sandra'^Φ. Location: Birkdale Nursery, Birkdale, QLD, Feb 1995 - May 1996. Conditions: plants raised in soilless media in 140mm pots with 4kg/m³ of controlled release fertiliser under 70% shade. Trial design: 120 plants arranged in a randomised block with replicates. Measurements: from the first two fully expanded leaves (usually the biggest) on the largest shoots of 15 plants selected at random.

Prior Applications and Sales

Country	Year	Status	Name Applied
Netherlands	1992	Pending	'Metalica'

First sold EC countries 1994.

Description: **Deo Singh**, Birkdale, QLD.
Table 36 *Spathiphyllum* varieties

	'Metalica'	*'Sandra'A
NUMBER OF SHOOTS	few	many
BASAL STEM	robust, exposed	thin, covered

Table 36 *Spathiphyllum* Varieties - continued

LEAF LENGTH (cm)		
mean	27.62	21.47
std deviation	1.31	1.05
LSD/sig	0.60	P≤0.01
LEAF WIDTH (cm)		
mean	11.91	8.15
std deviation	0.98	0.56
LSD/sig	0.41	P≤0.01
LEAF LENGTH:BREADTH RATIO		
mean	2.33	2.64
std deviation	0.18	0.16
LSD/sig	0.08	P≤0.01
MATURE LEAF COLOUR RHS		
abaxial	189A	137A
adaxial	137A	137A

PEACH*Prunus persica***'Rich May' syn '65EC75'**

Application No: 94/162 Accepted: 22 Aug 1994.

Applicant: **Zaiger's Inc. Genetics**, Modesto, California USA.Agent: **Fleming's Nurseries & Associates Pty Ltd**, Monbulk, VIC.

Description (Table 37, Figure 44) Plant: size medium, upright tree, flowering late Sep for one week. Leaf: size medium, anthocyanin absent, petiole large; nectaries present, small, kidney shaped. Flowering shoot: anthocyanin moderate, buds sparse. Flower: showy, orange calyx; petals 5, medium sized, round, pink; stigma level with anthers, pollen present, ovaries pubescent. Fruit: large, elliptic, pointed tip, skin groundcolour absent, overcolour purple; flesh firm, yellow; maturation first week of Dec. Seed: anthocyanin around clingstone.

Origin Controlled pollination: '34GA1155' x '36EB346'. Breeder: Leith Gardner, Zaiger's Inc. Genetics, Modesto, California, USA. Selection criteria: vigorous, upright growth habit, large fruit with early maturity, yellow flesh, heavy and regular production, ability to stay firm 4-5 days after maturity and good handling and shipping quality. Propagation: budding.

Comparative Trial Comparators: 'Maycrest', 'Topcrest'. Location: Fleming's Nurseries, Monbulk, VIC, Jun 1994 - Dec 1995. Conditions: propagated by budding onto Nemaguard rootstock, planted in the virus tested orchard. Measurements: 20 random samples from 8 specimen trees.

Prior Applications and sales First sold USA Jan 1991.

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

Table 37 *Prunus* varieties

	'Rich May'	*'Topcrest'	*'Maycrest'
WINTER CHILLING REQUIREMENT (units)			
	750-800	600-650	750-800
LEAF BLADE SIZE			
	medium	n/a	large
LEAF BLADE WIDTH (cm)			
mean	3.4	3.6	4.3
std deviation	2.3	1.6	1.3
LSD/sig	0.35	ns	P≤0.01
LEAF BLADE LENGTH (cm)			
mean	13.8	13.9	15.6
std deviation	2.3	1.6	1.3
LSD/sig	1.41	ns	P≤0.01
PETIOLE LENGTH (cm)			
mean	1.1	1.2	1.4
std deviation	0.2	0.2	0.2
LSD/sig	0.15	ns	P≤0.01
LEAF			
anthocyanin	absent	n/a	present
nectary shape	kidney	round	round
FLOWERING SHOOT			
anthocyanin	dense 50%	dense 50%	dense 67%
bud density (per 25cm)	sparse 2	medium 8	sparse 2
FLOWER			
blossom time	early Sep	late Aug	late Aug
petal size	medium	large	large
petal colour	pink	pink	pink
RHS	65B	62B	65B
FRUIT			
size	large	small	small
shape	elliptic	oblate	oblate
shape of tip	pointed	depressed	depressed
maturity date relative to 'Redhaven'	early - 31 days	very early - 38 days	early - 25 days
SKIN			
groundcolour	absent	yellow	yellow
RHS	-	11B	10B
FLESH			
groundcolour	yellow	yellow/ orange	yellow/ orange
RHS	12A	15C	15D
anthocyanin around stone	present	absent	absent

PETUNIA
Petunia integrifolia

'Desert Light' syn 'Number 1'

Application No: 95/008 Accepted: 27 Mar 1995.
Applicant: **Keith Hammett**, Massey, New Zealand.
Agent: **Bob Pearce, Pearce's Nurseries Pty Ltd**, McLeans Ridge, NSW.

Description (Table 38, Figure 17) Plant: prostrate, large, perennial herb. Stem: primary branches but, few secondary branches, green. Leaf: width 20.22mm, green, entire, elliptic to ovate, pubescent. Flower: single funnelform; colour inside throat RHS 62B, vein red, outside tube RHS 58B, outside vein green; sepal angle upright, anther yellow.

Origin Controlled pollination: *Petunia integrifolia* var. *integrifolia* x *Petunia* 'Celebrity'. Breeder: Keith Hammett, Massey, New Zealand. Selection criteria: flower size, colour and growing performance. Propagation: vegetative.

Comparative Trial Comparator: 'Crimson Light'. Location: McLeans Ridges, NSW, Sep - Nov 1995. Conditions: plants raised as cuttings Feb 1995 under ambient North East NSW conditions, transplanted to 200mm pots Jul 1995, standard soilless potting medium. Trial design: grouped replicates. Measurements: 10 random samples of each variety.

Prior Applications and Sales Nil.

Description: **Bob Pearce, Pearce's Nurseries Pty Ltd**, McLeans Ridge, NSW.

Table 38 *Petunia* varieties

	'Desert Light'	*'Crimson Light'
LEAF LENGTH (mm)		
mean	60.10	44.20
std deviation	6.42	9.03
LSD/sig	8.94	P≤0.01
FLOWER DIAMETER (mm)		
mean	50.46	37.84
std deviation	2.92	1.94
LSD/sig	2.83	P≤0.01
FLOWER		
throat colour RHS	62B	71A
throat vein colour	red	purple
tube outside RHS	58B	74B
tube vein colour	green	purple
anther colour	yellow	blue

'Dusky Light' syn 'Number 5'

Application No: 95/012. Accepted: 27 Mar 1995.
Applicant: **Keith Hammett**, Massey, New Zealand.
Agent: **Bob Pearce, Pearce's Nurseries Pty Ltd**, McLeans Ridge, NSW.

Description (Table 39, Figure 17) Plant: prostrate, large, perennial herb. Stem: many primary and secondary branches present, green. Leaf: length 50.35mm, width 17.21, green, entire, elliptic, pubescent. Flower: diameter 37.07mm, single funnelform; tube narrow, colour inside throat colour RHS 71A, vein purple, outside tube RHS 70B, outside vein purple; sepal angle upright, anther blue.

Origin Controlled pollination: *Petunia integrifolia* var. *integrifolia* x *Petunia* 'Celebrity'. Breeder: Keith Hammett, Massey, New Zealand. Selection criteria: flower size, colour and growing performance. Propagation: vegetative.

Comparative Trial Comparator: 'Crimson Light'. Location: McLeans Ridges, NSW, Sep - Nov 1995. Conditions: plants raised as cuttings Feb 1995 under ambient North East NSW conditions, transplanted to 200mm pots Jul 1995, standard soilless potting medium. Trial design: grouped replicates. Measurements: 10 random samples of each variety.

Prior Applications and Sales Nil.

Description: **Bob Pearce, Pearce's Nurseries Pty Ltd**, McLeans Ridge, NSW.

Table 39 *Petunia* varieties

	'Dusky Light'	*'Crimson Light'
BRANCHING		
secondary	many	few
LEAF SHAPE		
	elliptic	ovate
FLOWER COLOUR (RHS)		
tube outside	70B	74B

'Hush White' syn 'Hush Light'

Application No: 95/013 Accepted: 27 Mar 1995.
Applicant: **Keith Hammett**, Massey, New Zealand.
Agent: **Bob Pearce, Pearce's Nurseries Pty Ltd**, McLeans Ridge, NSW.

Description (Table 40, Figure 17) Plant: prostrate, large, perennial herb. Stem: primary but few secondary branches present, green. Leaf: green, entire, broadly ovate, pubescent. Flower: single, funnelform; tube narrow, colour inside throat RHS 155D, vein colour purple, outside tube RHS 155D, outside vein yellow-green; sepal angle horizontal to down, anther yellow.

Origin Controlled pollination: *Petunia integrifolia* var. *integrifolia* x *Petunia* 'Celebrity'. Breeder: Keith Hammett, Massey, New Zealand. Selection criteria: flower size, colour and growing performance. Propagation: vegetative.

Comparative Trial Comparator: 'Crimson Light'. Location: McLeans Ridges, NSW, Sep - Nov 1995.

Conditions: plants raised as cuttings Feb 1995 under ambient North East NSW conditions, transplanted to 200mm pots Jul 1995, standard soilless potting medium. Trial design: grouped replicates. Measurements: 10 random samples of each variety.

Prior Applications and Sales

Country	Year	Status	Name Applied
New Zealand	1994	Provisional	'Hush White'

First sold New Zealand Sept 1994.

Description: **Bob Pearce, Pearce's Nurseries Pty Ltd**, McLeans Ridge, NSW.

Table 40 *Petunia* varieties

	'Hush White'	**'Crimson Light'
LEAF LENGTH (mm)		
mean	63.57	44.20
std deviation	5.16	9.03
LSD/sig	8.39	P≤0.01
LEAF WIDTH (mm)		
mean	25.07	18.72
std deviation	2.72	3.94
LSD/sig	3.86	P≤0.01
FLOWER DIAMETER (mm)		
mean	68.3	37.84
std deviation	3.50	1.94
LSD/sig	3.23	P≤0.01
FLOWER COLOUR (RHS)		
throat	155D	71A
tube outside	155D	74B
tube vein	yellow/green	purple
anther	yellow	blue

'Magenta Light' syn 'Number 11'

Application No: 95/010 Accepted: 27 Mar 1995.
Applicant: **Keith Hammett**, Massey, New Zealand.
Agent: **Bob Pearce, Pearce's Nurseries Pty Ltd**, McLeans Ridge, NSW.

Description (Table 41, Figure 17) Plant: prostrate, large, perennial herb, primary branches but few secondary branches present. Stem: green. Leaf: green, elliptic, pubescent. Flower: single funnelform; tube narrow, colour inside throat RHS 65D, vein brown, outside tube RHS 66A, outside vein yellow-green; sepal angle upright; anther cream-yellow.

Origin Controlled pollination: *Petunia integrifolia* var. *integrifolia* x *Petunia* 'Celebrity'. Breeder: Keith Hammett, Massey, New Zealand. Selection criteria: flower size, colour and growing performance. Propagation: vegetative.

Comparative Trial Comparator: 'Crimson Light'. Location: McLeans Ridges, NSW, Sep - Nov 1995.

Conditions: plants raised as cuttings Feb 1995 under ambient North East NSW conditions, transplanted to 200mm pots Jul 1995, standard soilless potting medium. Trial design: grouped replicates. Measurements: 10 random samples of each variety.

Prior Applications and Sales Nil.

Description: **Bob Pearce, Pearce's Nurseries Pty Ltd**, McLeans Ridge, NSW.

Table 41 *Petunia* varieties

	'Magenta Light'	**'Crimson Light'
LEAF LENGTH (mm)		
mean	57.5	44.2
std deviation	5.08	9.03
LSD/sig	8.36	P≤0.01
LEAF WIDTH (mm)		
mean	28.40	18.72
std deviation	4.73	3.94
LSD/sig	4.97	P≤0.01
FLOWER DIAMETER (mm)		
mean	52.22	37.84
std deviation	2.49	1.94
LSD/sig	2.55	P≤0.01
FLOWER COLOUR (RHS)		
throat	65D	71A
throat vein	Brown	purple
tube outside	66A	74B
tube vein	yellow/green	purple
anther	cream/yellow	blue

'Mauve Light' syn 'Number 13'

Application No: 95/009, Accepted: 27 Mar 1995.
Applicant: **Keith Hammett**, Massey, New Zealand.
Agent: **Bob Pearce, Pearce's Nurseries Pty Ltd**, McLeans Ridge, NSW.

Description (Table 42, Figure 17) Plant: prostrate, large, perennial herb, primary and secondary branches present. Stem: green. Leaf: green, mean length 42.72mm, mean width 18.30mm, elliptic, pubescence present. Flower: single funnelform; tube width narrow; colour inside throat RHS 155D, vein colour yellow-green, outside tube RHS 82C, outside vein yellow-green; sepal angle horizontal to down, anther cream.

Origin Controlled pollination: *Petunia integrifolia* var. *integrifolia* x *Petunia* 'Celebrity'. Breeder: Keith Hammett, Massey, New Zealand. Selection criteria: flower size, colour and growing performance. Propagation: vegetative.

Comparative Trial Comparator: 'Crimson Light'. Location: McLeans Ridges, NSW, Sep - Nov 1995. Conditions: plants raised as cuttings Feb 1995 under ambient North East NSW conditions, transplanted to

200mm pots Jul 1995, standard soilless potting medium. Trial design: grouped replicates. Measurements: 10 random samples of each variety.

Prior Applications and Sales Nil.

Description: **Bob Pearce, Pearce's Nurseries Pty Ltd**, McLeans Ridge, NSW.

Table 42 *Petunia* varieties

	'Mauve Light'	*'Crimson Light'
FLOWER DIAMETER (mm)		
mean	49.75	37.84
std deviation	2.99	1.94
LSD/sig	2.87	P≤0.01
FLOWER COLOUR (RHS)		
throat	155D	71A
throat vein	yellow/green	purple
tube outside	82C	74B
tube vein	yellow/green	purple
anther	cream	blue

'Pink Light' syn '205/7'

Application No: 95/011 Accepted: 27 Mar 1995.

Applicant: **Keith Hammett**, Massey, New Zealand.

Agent: **Bob Pearce, Pearce's Nurseries Pty Ltd**, McLeans Ridge, NSW.

Description (Table 43, Figure 17) Plant: prostrate, large, perennial herb, primary branches but few secondary branches present. Stem: green. Leaf: mean width 20.63mm, green, entire, ovate, pubescent to horizontal. Flower: single funnellform; tube narrow; inside throat colour RHS 155D, vein yellow-green, outside tube RHS 74B, outside vein yellow-green; sepal angle upright, anther white.

Origin Controlled pollination: *Petunia integrifolia* var. *integrifolia* x *Petunia* 'Celebrity'. Breeder: Keith Hammett, Massey, New Zealand. Selection criteria: flower size, colour and growing performance. Propagation: vegetative.

Comparative Trial Comparator: 'Crimson Light'. Location: McLeans Ridges, NSW, Sep - Nov 1995. Conditions: plants raised as cuttings Feb 1995 under ambient North East NSW conditions, transplanted to 200mm pots Jul 1995, standard soilless potting medium. Trial design: grouped replicates. Measurements: 10 random samples of each variety.

Prior Applications and Sales Nil.

Description: **Bob Pearce, Pearce's Nurseries Pty Ltd**, McLeans Ridge, NSW.

Table 43 *Petunia* varieties

	'Pink Light'	*'Crimson Light'
LEAF LENGTH (mm)		
mean	52.36	44.20
std deviation	4.26	9.03
LSD/sig	8.05	P≤0.01
FLOWER DIAMETER (mm)		
mean	47.59	37.84
std deviation	3.68	1.94
LSD/sig	3.36	P≤0.01
FLOWER COLOUR (RHS)		
throat	155D	71A
throat vein	yellow/green	purple
tube vein	yellow/green	purple
anther	white	blue

'Tiger Light'

Application No: 95/014. Accepted: 27 Mar 1995.

Applicant: **Bob Pearce, Pearce's Nurseries Pty Ltd**, McLeans Ridge, NSW.

Description (Table 44, Figure 17) Plant: prostrate, medium, perennial herb, primary branches but few secondary branches. Stem: green. Leaf: length 42.88mm, mean width 19.29mm, green, entire, ovate, pubescent. Flower: single funnellform; tube narrow, inside throat colour RHS 49A, vein green, outside tube RHS 77B, outside vein yellow-green; sepal angle horizontal, anther white.

Origin Spontaneous mutation: *Petunia integrifolia* var. *integrifolia*. Breeder: Bob Pearce, McLeans Ridges, NSW. Selection criteria: compactness and non-reversion of variegation. Propagation: vegetative.

Comparative Trial Comparator: 'Crimson Light'. Location: McLeans Ridges, NSW, Sep - Nov 1995. Conditions: plants raised as cuttings Feb 1995 under ambient North East NSW conditions, transplanted to 200mm pots Jul 1995, standard soilless potting medium. Trial design: grouped replicates. Measurements: 10 random samples of each variety.

Prior Applications and Sales Nil.

Description: **Bob Pearce, Pearce's Nurseries Pty Ltd**, McLeans Ridge, NSW.

Table 44 *Petunia* varieties

	'Tiger Light'	*'Crimson Light'
LEAF		
variegation	present	absent
FLOWER DIAMETER (mm)		
mean	33.14	37.84
std deviation	2.12	1.94
LSD/sig	2.32	P≤0.01

Table 44 *Petunia* Varieties - continued

FLOWER COLOUR (RHS)		
throat	49A	71A
throat vein	green	purple
tube outside	77B	74B
tube vein	yellow/green	purple
anther	white	blue

PLANTAIN*Plantago lanceolata***'Ceres Tonic' syn 'PG 30'**

Application No: 96/017 Accepted: 12 Feb 1996.

Applicant: **Pyne Gould Guinness Limited**, Christchurch, New Zealand.

Agent: **Valley Seeds Pty Ltd**, Alexandra, VIC.

Description (Table 45, Figure 49). Plant: perennial, tufted rosette, tap rooted. Leaf: lanceolate, length 20-32cm, width 3-6cm, parallel veins 3-7; scape furrowed, leafless, length 30-70cm. Flower: spike cylindrical, length 20-75mm small, green-brown; stamens white/cream, exerted; mean heading day 24.2 days from first heading.

Origin Selection and Polycross: based on germplasm originating in Europe, the precise origin of which is not known, but probably Portugal. Selections were made from fifty polycrossed parental clones. Breeder: Dr Alan V Stewart, Pyne Gould Guinness Ltd. Selection criteria: erect leaf habit, large leaf size, freedom from disease, seed yield potential. Propagation: seed.

Comparative Trial Comparator: 'Grasslands Lancelot'. Location: Ceres Research Station of Pyne Gould Guinness Limited, Christchurch, New Zealand and AgResearch Grasslands Research Centre, Palmerston North, New Zealand, 1993, where replicated planted rows were established. Conditions: seed sown Mar 1993, trial planted May 1993. Trial design: spaced plants, 10 replicates of 10 plants for each variety with two generations of 'Ceres Tonic. Measurements: recorded in the following growing season.

Prior Applications and Sales

Country	Year	Status	Name Applied
New Zealand	1994	Granted	'Ceres Tonic'

First sold New Zealand 1995.

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

Table 45 *Plantago* varieties

	'Ceres Tonic'	**Grasslands Lancelot'
PLANT HEIGHT (mm)		
mean	624.00	676.00
std deviation	77.0	106.0
LSD/sig	34.29	P≤0.001

Table 45 *Plantago* Varieties - continued

GROWTH HABIT (outer leaves 1 = erect, 5 = prostrate)		
mean	2.5	3.5
std deviation	0.6	0.7
LSD/sig	0.24	P≤0.001
LEAVES PER PLANT		
mean	25.2	40.9
std deviation	12	22
LSD/sig	6.56	P≤0.01
LEAF WIDTH (mm) longest leaf		
mean	46.6	33.5
std deviation	10	9.2
LSD/sig	3.56	P≤0.001

'Grasslands Lancelot'

Application No: 96/016 Accepted: 12 Feb 1996.

Applicant: **New Zealand Pastoral Agriculture Research Institute Limited**, AgResearch Grasslands, Palmerston North, New Zealand.

Agent: **Mr A. (Tony) E. Stratton**, AgResearch Grasslands, Albury, NSW.

Description (Table 46, Figure 49) Plant: perennial, tufted single or multi crowned. Leaf: lanceolate, length 20-30cm, width 1.5-5cm, nerves 3-5; scape furrowed, length 32-79cm. Flower: spike cylindrical, length 20-76mm, mean 22 per plant; stamens white/cream, exerted. Seed: weight 1.6-1.8gm/1000.

Origin Inter-pollination of recurrent selections from wild populations. Breeder: Dr Bill Rumball, AgResearch Grasslands, Palmerston North, New Zealand. Selection criteria: three cycles of selection for plant density, high vigour, seed head production, freedom from disease. Propagation: seed.

Comparative Trial Comparator: 'PG 30'. Location: Palmerston North, New Zealand. Conditions: seed was sown in seed trays of potting mix in a glasshouse and later transferred to a field site (Oct 1992) as planted replicated rows and to sand beds (Aug 92) as spaced plants at 50cm spacing in alternating rows. Measurements recorded from 90-110 plants of each generation from sand bed plants.

Prior Applications and Sales

Country	Year	Status	Name Applied
New Zealand	1993	Granted	'Grasslands Lancelot'

First sold New Zealand 1995.

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

Table 46 *Plantago* varieties.

	'Grasslands Lancelot'	**PG 30'
PLANT GROWTH HABIT (1=prostrate, 5=erect)		
mean	2.55	3.99
std deviation	0.80	0.81
LSD/sig	0.28	P≤0.001
PLANT DENSITY SCORE (1=least, 5=most)		
mean	4.08	3.52
std deviation	0.87	0.87
LSD/sig	0.31	P≤0.001
LEAF LENGTH (cm) longest at heading.		
mean	25.34	27.68
std deviation	8.68	8.90
LSD/sig	1.99	P≤0.001
LEAF WIDTH (mm) widest part of above leaf		
mean	49.86	63.98
std deviation	14.63	14.34
LSD/sig	6.36	P≤0.001
MEAN HEADING DAY (days from 8/10/93)		
mean	18.84	12.21
std deviation	6.17	4.28
LSD/sig	2.20	P≤0.001

*'PG 30' has since been released as 'Ceres Tonic'

ROSE *Rosa*

'Intersept' syn 'Ruby Rosamini'

Application No: 94/031 Accepted: 1 Feb 1994.

Applicant: **Interplant BV**, The Netherlands.

Agent: **Grandiflora Nurseries Pty Ltd**, Cranbourne, VIC.

Description (Table 47, Figure 9) Plant: bushy remontant pot rose. Stem: thorns present, lower surface flat. Young vegetative shoot: anthocyanin absent to very weak, bronze to reddish brown. Leaf: very small, length 29mm, light to medium green, glossiness upper side absent or very weak. Terminal leaflet: cross section slightly concave, margin undulation absent to very weak, base obtuse. Flower pedicel: hairs/prickles few. Flower bud: profile ovate. Flower: size very small to small, double, upper profile flat, lower profile flattened convex; petal very small, colour group red RHS 44A-46C, basal spot small, red-purple RHS 4D both surfaces, margin medium reflexing, undulation medium; stamen filaments yellow. Seed vessel: small, pear shaped.

Origin Controlled pollination: Unknown seedling x Unknown seedling, 1985. Breeder: Interplant BV, The Netherlands. Selection criteria: miniature rose plant suitable for production under glass or cover. Propagation: vegetative for many generations.

Comparative Trial Comparator: 'Lavjack'^(b). Location: Cranbourne, VIC, Oct 1995 - Jan 1996. Conditions: plants grown in scoria hydroponic within environmentally controlled glasshouse. Measurements: random samples collected over a four month period and validated by overseas test information.

Prior Applications and Sales

Country	Year	Status	Name Applied
Denmark	1991	Granted	'Intersept'
Netherlands	1991	Granted	'Intersept'
Germany	1992	Granted	'Intersept'
USA	1992	Pending	'Intersept'

First sold Denmark 1991.

Description: **Phil Elliott, Grandiflora Nurseries Pty. Ltd**, Cranbourne, VIC.

Table 47 *Rosa* varieties

	'Intersept'	**'Lavjack' ^(b)
THORN LENGTH (mm)		
mean	6	3.9
std deviation	1.50	0.4
LSD/sig	0.84	P≤0.01
TERMINAL LEAFLET WIDTH (mm)		
mean	18	15.9
std deviation	2.21	1.8
LSD/sig	1.55	P≤0.01
FLOWER PEDICEL		
thorns/hairs	few	many
FLOWER DIAMETER (mm)		
mean	34.76	31.2
std deviation	4.07	1.8
LSD/sig	2.42	P≤0.01
PETAL COLOUR (RHS)		
mid zone outside	46C	43A-43B
midzone inside	44A	44B
margin outside	45A	43B-43C
margin inside	44B	44B
PETAL BASAL SPOT INSIDE		
size	medium	very small
colour	yellow	yellow
RHS	4D	4D
PETAL BASAL SPOT OUTSIDE		
size	small	small
colour	yellow	white
RHS	4D	155D
VESSEL SEED SIZE		
	small	medium

'Lavdoll' syn 'Apricot Bouquet'

Application No: 94/057 Accepted: 16 Feb 1994.

Applicant: **Springwood Consultants Ltd**, Ontario, Canada.

Agent: **Greg Lowe**, Terrigal NSW.



Fig 1 Rose 'Ruifire'



Fig 2 Rose 'Ruigal'



Fig 3 Rose 'Ruicharm'

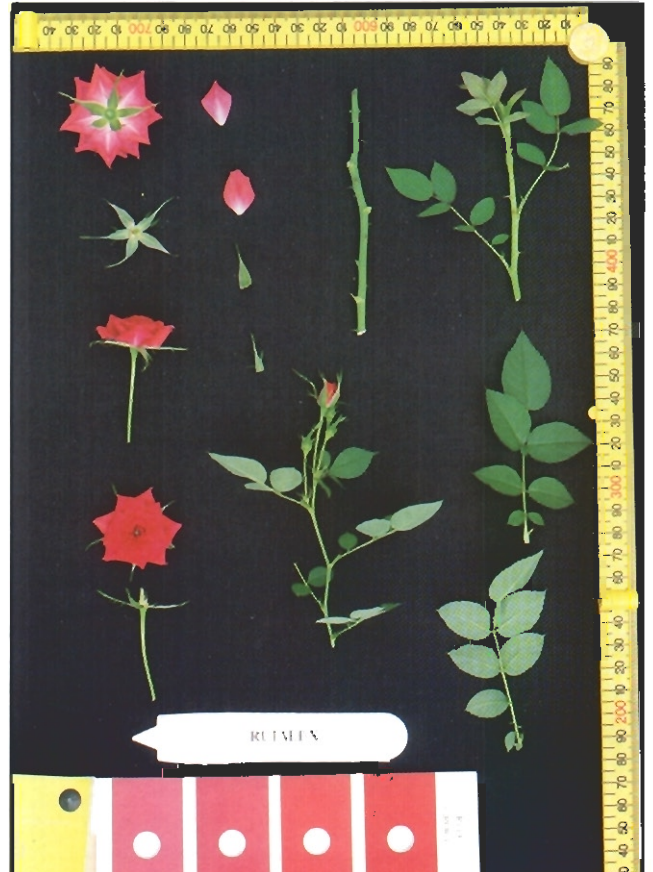


Fig 4 Rose 'Ruialex'



Fig 5 Rose 'Ruidiggel'



Fig 6 Rose 'Ruirodella'



Fig 7 Rose 'Ruipipi'



Fig 8 Rose 'Ruichris'



Fig 9 Rose 'Intersept'



Fig 10 Rose 'Noamel'



Fig 12 Rose 'Welpink'



Fig 11 Cotton Lavender 'Lemon Fizz' (right) with its comparator 'Green Gold' (left)

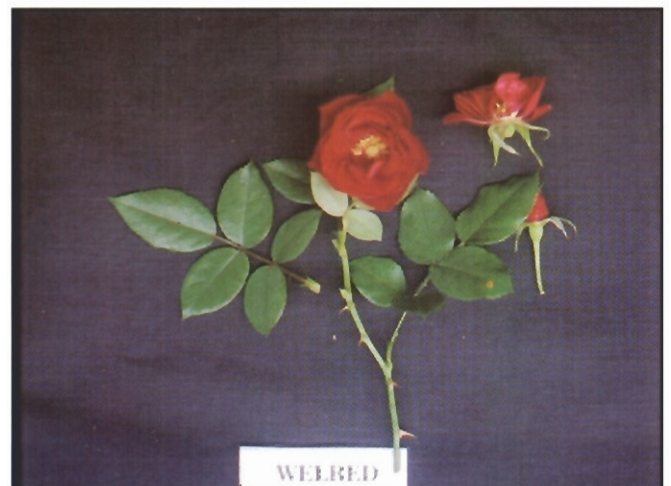


Fig 13 Rose 'Welred'



Fig 14 Rose 'Welgold'



Fig 15 Kangaroo Paw 'Sunglow' (fourth from left) with its comparators 'Yellow Gem' (extreme left), *Anigozanthos pulcherrimus* (2nd from left), *Anigozanthos pulcherrimus* (3rd from left), *Anigozanthos pulcherrimus* orange cross (extreme right)



Fig 16 Rose 'Lavdoll'



Fig 17 Petunias 'Desert Light' (left, 2nd from top), 'Dusky Light' (left, 3rd), 'Hush White' (left, 4th), 'Magenta Light' (right, 1st from top), 'Mauve Light' (right, 2nd), 'Tiger Light' (right, 3rd) and 'Pink Light' (right, 4th) along with their comparator * 'Crimson Light' (left, 1st from top).



Fig 18 Azalea 'Paradise Louise' (left) and comparator 'Lavender Rosina' (right)



Fig 19 Azalea 'Paradise Christine' (left) and comparator 'Happy Days' (right)



Fig 20 Dianthus 'Crossover' (centre) and 'Far Out' (right) with their comparator 'Far Cry'



Fig 21 Clematis 'Southern Cross' (centre) with its comparators *Clematis gentianoides* (left) and *Clematis aristata* (right).



Fig 22 Impatiens 'Golden Girl'



Fig 23 Impatiens 'Golden Anniversary'

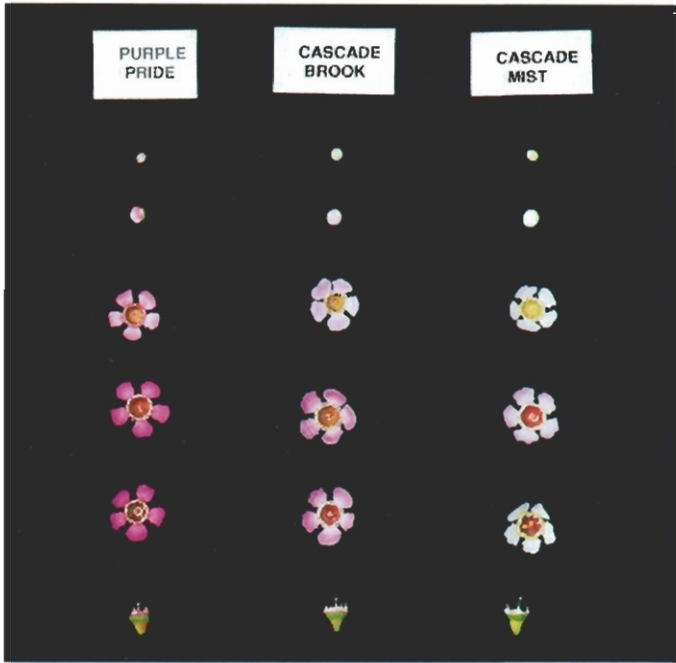


Fig 24 Waxflower 'Cascade Brook' (centre) with its comparators



Fig 25 Waxflower 'Revelation' (centre) with its comparators 'Purple Pride' (left) and *C. megalopetalum* (right)



Fig 26 Waxflower 'Painted Lady' (centre) with its comparators 'Purple Pride' (left) and *C. megalopetalum* (right)



Fig 27 Waxflower 'Madonna' (centre) with its comparators 'Purple Pride' (left) and *C. megalopetalum* (right)



Fig 28 Waxflower 'Blondie' (centre) with its comparators 'Purple Pride' (left) and *C. megalopetalum* (right)



Fig 29 Marguerite Daisy 'Sugar and Ice' (left) with comparator 'Pearl' (right)



Fig 30 Scholtzia 'White Cascades' (right) with its comparator *Scholtzia oligandra* (left)



Fig 31 Marguerite Daisy 'Primrose' (left) with comparator 'Harvest Gold' (right)



Fig 32 Marguerite Daisy 'Gretel' (left) with comparators 'Rollasons Red' (centre) and 'Blanche' (right)



Fig 33 Marguerite Daisy 'Carmella' (left) with comparators 'Rollasons Red' (centre) and 'Blanche' (right)



Fig 34 Grevillea inflorescence and leaf of 'Landcare' (right) and 'Misty Pink' (left)



Fig 35 Lilly Pilly shoot and leaves of 'Hedgemaster' (right) and Comparator *Acmena smithii* (left)



Fig 36 Canna 'Phasion' (right) with its comparator 'Wyoming' (left)



Fig 37 Peace Lily 'Metalica' (right) with its comparator 'Dandra' (left)



Fig 38 Pandorea flowers of 'Southern Belle' (left), 'Bower of Beauty' (centre), 'Lady Di' (right)

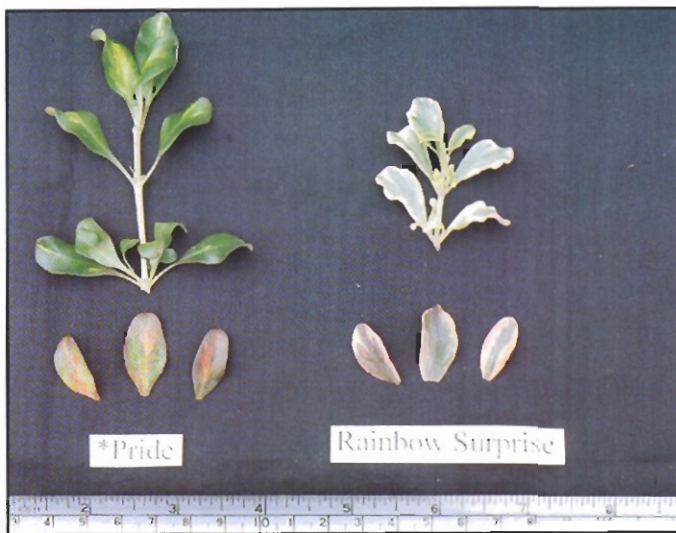


Fig 39 Mirror Plant 'Rainbow Surprise' (right) with its comparator 'Pride'



Fig 40 Lantana 'Malans Gold' (right) and the comparator *Lantana montevidensis* (left)



Fig 41 Dipladenia (Mandevilla) range of petal colour variations in 'Pale Face'

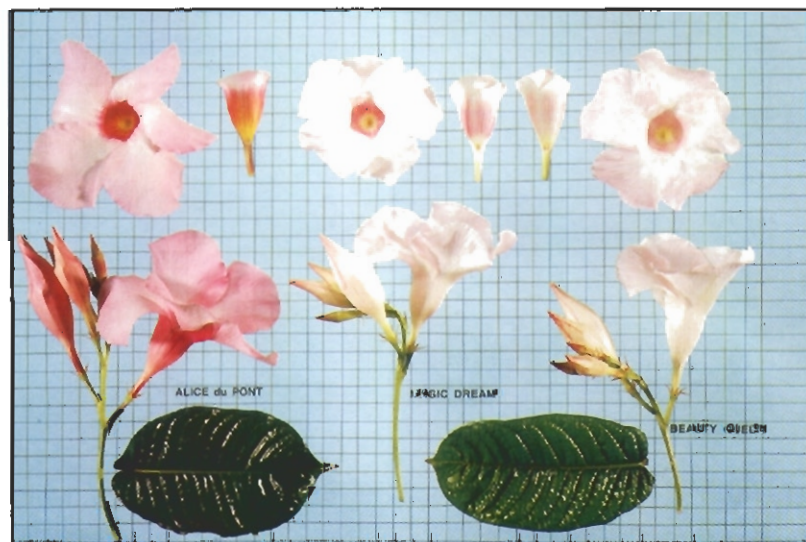


Fig 42 Dipladenias (Mandevilla) 'Beauty Queen' (right) and 'Magic Dream' (centre) with their comparator 'Alice du Pont' (left)



Fig 43 Nectarine fruits of 'Royalglo' (right) and its comparators

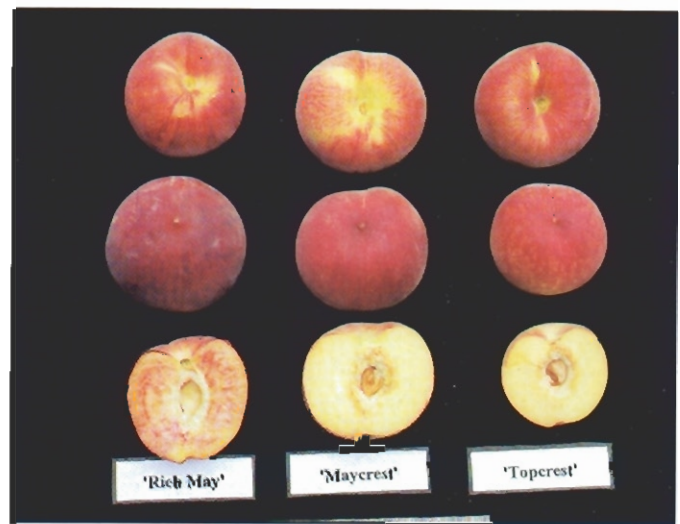


Fig 44 Nectarine fruits of 'Rich May' (left) and its comparators

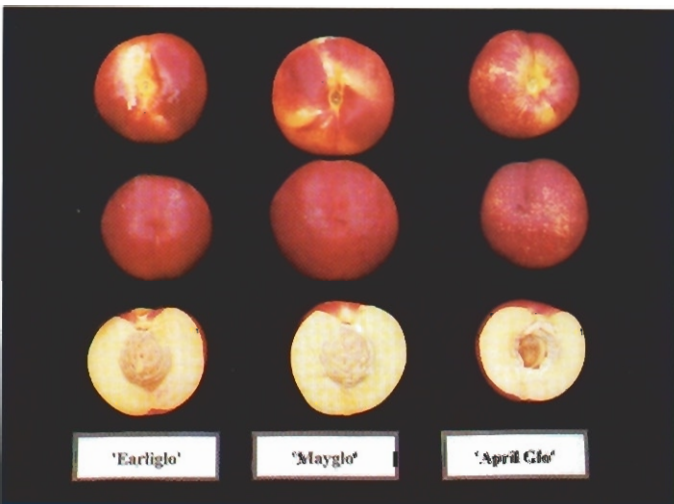


Fig 45 Nectarines 'Earliglo' (left) and 'April Glo' with their comparator 'Mayglo' (centre)



Fig 46 Apple 'Jonagored' (left) with its closest local comparators 'New Jonagold' (centre) and 'Crown Gold' (right)

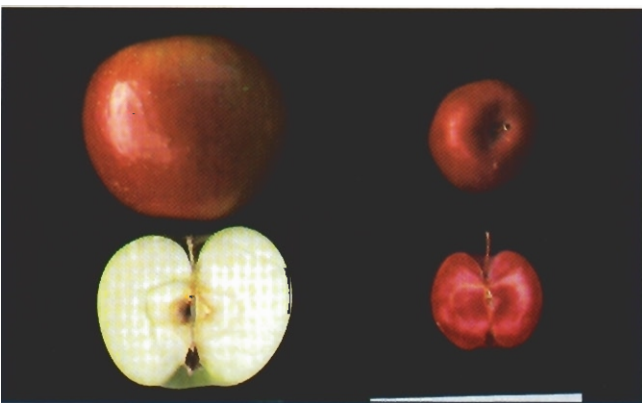


Fig 47 Apples 'SA244-20' (right) is a crab apple fruit, distinct from the dessert fruit of 'SA 251-18' (left)

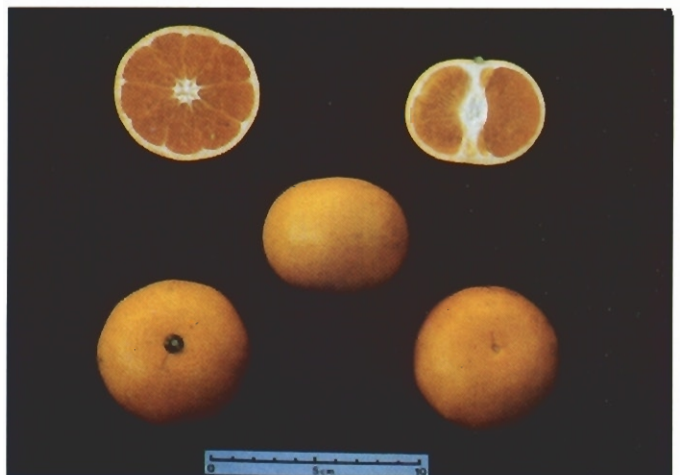


Fig 48 Citrus 'Tsunokaori'



Fig 49 Plantain A comparison of leaf size and growth habit of young plants of 'Grasslands Lancelot' (left) and 'Ceres Tonic' (right) (= PGG)

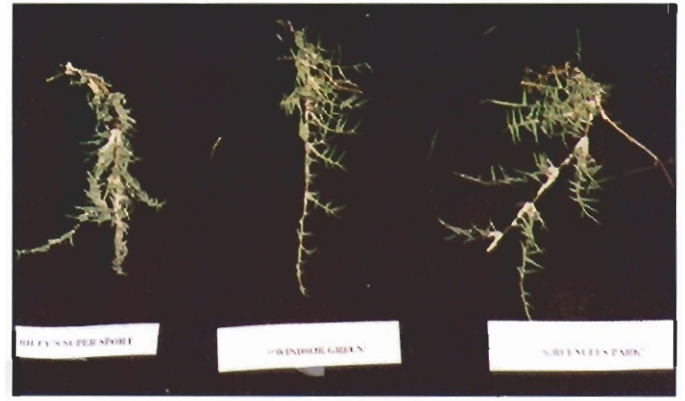


Fig 50 Couch grass stolons of 'Riley's Super Sport' (left) and comparators 'Windsor Green'⁽¹⁾ and 'Greenlees Park' (right)



Fig 51 Wheat Grains and glumes of 'Paterson' (left), 'Lawson'⁽¹⁾ (centre), 'Owlet' (right)

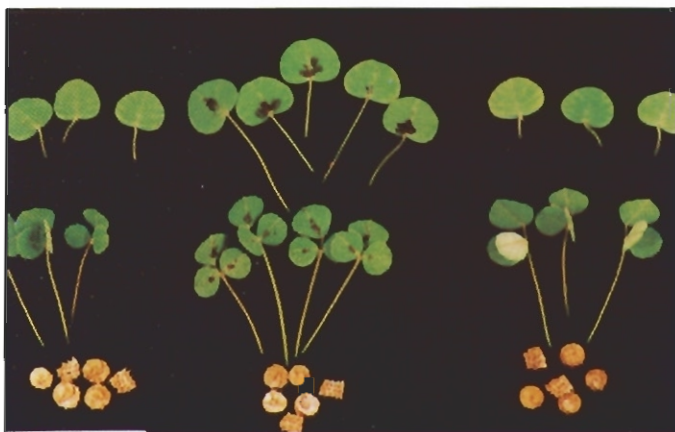


Fig 52 Strand Medic Leaflets (above) and pods (below) of 'Herald' (centre) and its comparators 'Harbinger' (left) and 'Harbinger AR' (right) showing distinguishing features.



Fig 53 Tall Fescues 'Bombina' (left), 'Midwin' (right) and comparator 'Grasslands Advance'⁽¹⁾



Fig 54 Sunflower seeds of 'Daniel'



Fig 55 Strawberry clover flower density and peduncle length of 'Grasslands Onward' (above) and 'O'Connors' (below)

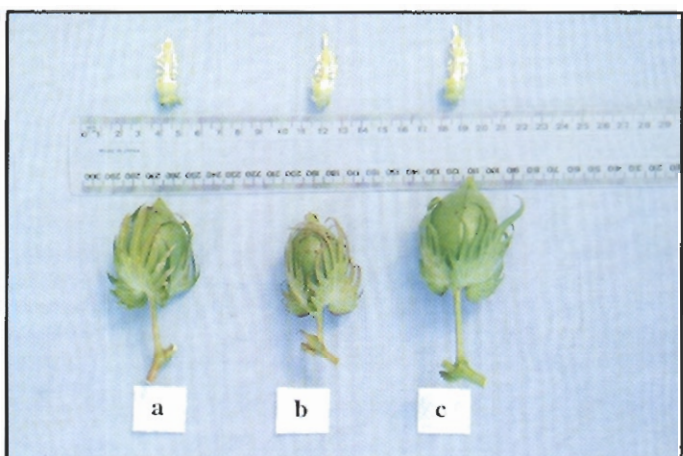


Fig 56 Cotton from left (a) 'Siokra S-101' with its comparators (b) 'Siokra S324', (c) 'Siokra V-15'⁽¹⁾

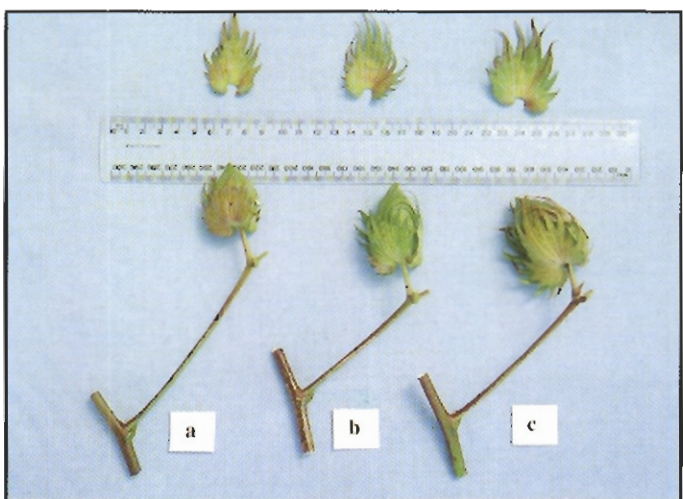


Fig 57 Cotton from left (a) 'Sicot 189' with its comparators (b) 'CS 189+', (c) 'Sicala V-2'⁽¹⁾

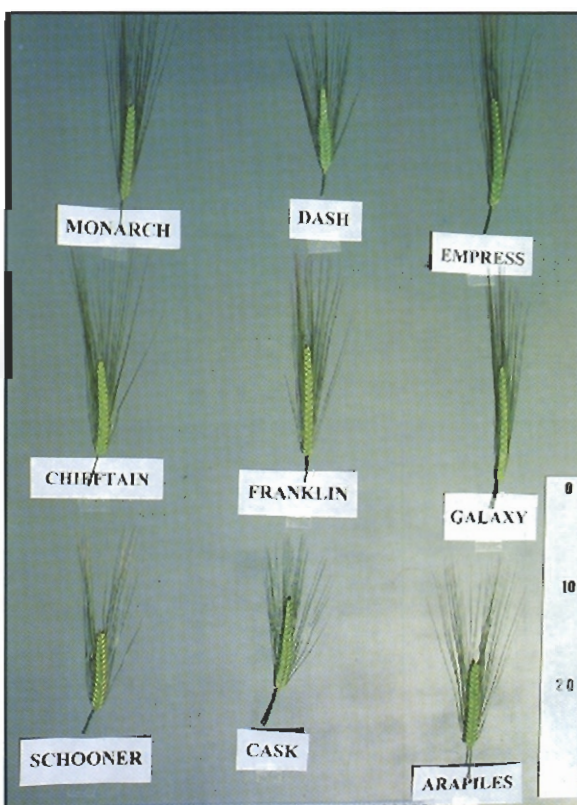


Fig 58 Barley carheads of 'Dash', 'Monarch', 'Empress' and 'Chieftain' along with those of their respective comparators.

Description (Table 48, Figure 16) Plant: miniature rose, very early, almost continuous flowering. Stem: thorn lower profile flat. Young vegetative shoot: anthocyanin weak, reddish brown. Leaf: size small, dark green, medium glossy. Terminal leaflet: length short, width medium, base obtuse, cross section slightly convex, undulation of margin absent. Flower pedicel: glandular hairs few. Flower bud: ovate. Flower: clusters 1-3, double, diameter small, view from above irregularly round, upper profile convex, lower profile flattened convex, sepal extensions absent to weak; petal medium number, small, colour inner RHS 40C, outer RHS 39C, basal spot inside and outside RHS 2A, reflexing of margin strong, undulation of margin medium, fragrance absent to weak; stamens outer yellow. Seed vessel: small, pitcher shaped.

Origin Controlled pollination: 'Painted Doll' x 'Painted Doll' in 1990. Breeder: Keith Laver, Ontario, Canada. Selection criteria: compact growth, flower number, quick repeating of flowering, strong apricot flower colour. Propagation: vegetative through many generations.

Comparative Trial Comparator: 'Bella'. Location: Terrigal, NSW, Apr 1996. Conditions: plants grown in 100mm pots in a peat based mix with 4kg/m³ slow release fertilizer, overhead watered. Trial design: randomised complete blocks with three replicates. Measurements: on all 15 plants.

Prior Applications and Sales First sold USA 1994.

Description: Greg Lowe, Terrigal, NSW.

Table 48 Rosa varieties

	'Lavdoll'	**'Bella'
THORNS	present	absent
LEAFLET LENGTH (mm)		
mean	25.1	22.1
std deviation	1.9	2.3
LSD/sig	2.3	P≤0.01
PETIOLULE LENGTH (mm)		
mean	8.9	6.3
std deviation	1.1	0.7
LSD/sig	1.0	P≤0.01
NUMBER OF PETALS		
mean	32.4	58
std deviation	1.5	4.4
LSD/sig	10.4	P≤0.01
PETAL REFLEXING	strong	weak
STAMEN FILAMENT COLOUR	yellow	white/pale green

'Noamel' syn 'Appleblossom'

Application No: 95/100 Accepted: 28 Jun 1995.

Applicant: **Werner Noack**, Gutersloh, Germany.
Agent: **Flower Carpet Pty Ltd**, Silvan VIC.

Description (Table 49, Figure 10) Plant: ground cover, wide spreading. Stem: thorns convex above, concave below. Young vegetative shoot: anthocyanin slight. Terminal leaflet: glossy, glabrous, flat, margin undulation absent. Flower pedicel: prickles few. Flower: above view irregularly rounded; side view flattened above, flattened convex below; petal obovate, colour midzone outside 65A-C, midzone inside 155A, margin outside 65A-C, margin inside 155A, basal spot absent; sepal extensions very weak, filament yellow green, androecium prominent, anthers level with stigma.

Origin Vegetative sport: 'Noatraum'^φ. Breeder: Werner Noack, Gutersloh, Germany.

Selection criteria: growth habit, flower colour. Propagation: graftage and cuttage though several generations.

Comparative Trial Comparators: 'Simply Magic', 'Bonica'. Location: Silvan, VIC, Aug 1995 - Mar 1996. Conditions: ambient, kraznozem soil, controlled release fertiliser. Trial design: split plots. Measurements: twenty random samples from ten plants.

Prior Applications and Sales

Country	Year	Status	Name Applied
Germany	1994	Granted	'Noamel'

First sold Germany 1994.

Description: David Nichols, Devon Meadows, VIC.

Table 49 Rosa varieties

	'Noamel'	**'Simply Magic'	**'Bonica'
PLANT			
growth type	ground cover	ground cover	bush
thorn shape upper side	convex	flat	concave to flat
PLANT HEIGHT (cm)			
mean	55.7	45.2	94.8
std deviation	7.5	6.1	18.3
LSD/sig	12.0	ns	P≤0.01
PLANT WIDTH (cm)			
mean	144.0	79.8	115.2
std deviation	13.9	16.6	24.4
LSD/sig	17.0	P≤0.01	P≤0.01
STEM DIAMETER (mm) two thickest stems			
mean	8.4	5.7	9.7
std deviation	1.6	1.0	1.7
LSD/sig	1.1	P≤0.01	P≤0.01
THORN LENGTH (mm) LSD (P≤0.01) =0.1			
mean	10.5	9.0	9.0
std deviation	0.8	1.5	1.0
LSD/sig	0.1	P≤0.01	P≤0.01

Table 49 *Rosa* Varieties - continued

LEAF CHARACTERISTICS			
shape of terminal leaflet base			
	obtuse	round	round
TERMINAL LEAFLET LENGTH (mm)			
mean	41.5	57.8	49.3
std deviation	3.7	7.7	7.1
LSD/sig	5.0	P≤0.01	P≤0.01
FLOWER CHARACTERISTICS			
bud shape	ovate	round	ovate
no of petals	13-26	26-50	over 50
petal length to width ratio			
	2.4	2.8	3.2
FLOWER COLOUR (RHS)			
midzone			
outside	65A-C	62A	158C
inside	155A	62B-C	158C
margin			
outside	65A-C	62A	65B-C
inside	155A	62B-C	65B-C
filament	yellow green	yellow green	green white
anther	yellow	yellow	brown and cream
FLOWER DIAMETER (mm) two random flowers			
mean	47.1	67.6	70.4
std deviation	1.9	4.7	3.1
LSD/sig	2.5	P≤0.01	P≤0.01
SEPAL LENGTH (mm) two random flowers			
mean	17.3	19.9	22.1
std deviation	1.5	0.9	1.0
LSD/sig	1.9	P≤0.01	P≤0.01
SEED VESSEL CHARACTERISTICS			
size	small	na	large
colour	green	na	green and purple

na = not available at the time of measurement.

'Ruialex' syn 'Red Festival'

Application No. 94/029 Accepted: 1 Feb 1994.

Applicant: **De Ruiter's Nieuwe Rozen BV**, The Netherlands.

Australian Agent: **Grandiflora Nurseries Pty Ltd**, Cranbourne VIC.

Description (Table 50, Figure 4) Plant: bushy remontant pot rose. Stem: thorns present, lower surface slightly concave to flat. Young vegetative shoot: anthocyanin colouration weak, bronze to reddish brown. Leaf: small, colour medium green, weak glossiness upper side. Terminal leaflet: length 34mm, width 19mm, cross section flat, margin undulation absent to very weak, leaf base rounded. Flower pedicel: hairs/prickles few to medium. Flower bud: profile broad-ovate. Flower: very small, diameter 37mm, double, flattened convex upper and lower profiles; petals small, red, basal spot small, white, both surfaces; margin reflexing medium to strong, undulation weak; stamens filaments yellow. Seed vessel: small, pitcher shaped.

Origin Controlled pollination: Unknown seedling x Unknown seedling, 1990. Breeder: De Ruiter's Nieuwe Rozen BV, The Netherlands. Selection criteria: miniature rose plant suitable for production under glass or cover. Propagation: vegetative for many generations.

Comparative Trial Comparator: 'Meinocht'[Ⓞ]. Location Cranbourne, VIC, Oct 1995 - Jan 1996. Conditions: plants grown in scoria hydroponic within environmentally controlled glasshouse Measurements: 20 random samples collected over a four month period and validated by overseas test information.

Prior Applications and Sales

Country	Year	Status	Name Applied
Denmark	1992	Pending	'Ruialex'
Netherlands	1992	Pending	'Ruialex'
Germany	1992	Pending	'Ruialex'

First sold Denmark 1992.

Description: **Phil Elliott**, Grandiflora Nurseries Pty Ltd, Cranbourne, VIC.

Table 50 *Rosa* varieties

	'Ruialex'	*'Meinocht' [Ⓞ]
THORN LENGTH (mm)		
mean	3	5.6
std deviation	1.01	1.1
LSD/sig	0.81	P≤0.01
PETAL COLOUR (RHS)		
midzone outside	53B	59C
midzone inside	46B	59B
margin outside	53B	59C
margin inside	46B	59B
PETAL BASAL SPOT INSIDE		
size	small	absent
colour/RHS	white 155C	-
PETAL BASAL SPOT OUTSIDE		
size	small	absent
colour/RHS	white 155C	-

'Ruicharm' syn 'Charming Festival'

Application No: 94/024 Accepted: 1 Feb 1994.

Applicant: **De Ruiter's Nieuwe Rozen BV**, The Netherlands.

Agent: **Grandiflora Nurseries Pty Ltd**, Cranbourne, VIC.

Description (Table 51, Figure 3) Plant: broad bushy remontant pot rose. Stem: thorns present, lower surface concave. Young vegetative shoot: anthocyanin medium, reddish brown. Leaf: size medium, medium to dark green, upper side glossiness weak. Terminal leaflet: cross section slightly concave, margin undulation absent to very weak, leaf base rounded. Flower pedicel: hairs/prickles many.

Flower bud: profile ovate. Flower: very small to small, double, flattened convex upper and lower profile; petal small, salmon coloured RHS 43D-52C, basal spot large, white, both surfaces, margin reflexing strong, undulation weak; stamen filaments yellow. Seed vessel: small, pitcher shaped

Origin Controlled pollination: Unknown seedling x Unknown seedling, 1989. Breeder: De Ruiter's Nieuwe Rozen BV, The Netherlands. Selection criteria: miniature rose plant suitable for production under glass or cover. Propagation: vegetative for many generations.

Comparative Trial Comparator: 'Meinochot'[Ⓛ]. Location: Cranbourne, VIC, Oct 1995 - Jan 1996. Conditions: plants grown in scoria hydroponic within environmentally controlled glasshouse. Measurements: 20 random samples collected over a four month period and validated by overseas test information.

Prior Applications and Sales

Country	Year	Status	Name Applied
Denmark	1992	Pending	'Ruicharm'
Netherlands	1992	Pending	'Ruicharm'
Germany	1992	Pending	'Ruicharm'

First sold Denmark in 1992.

Description: Phil Elliott, Grandiflora Nurseries Pty Ltd, Cranbourne, VIC.

Table 51 Rosa varieties

	'Ruicharm'	*'Meinochot' [Ⓛ]
THORN LENGTH (mm)		
mean	7	5.6
std deviation	1.70	1.1
LSD/sig	1.10	P≤0.01
TERMINAL LEAFLET LENGTH (mm)		
mean	56	33.3
std deviation	6.19	1.9
LSD/sig	3.52	P≤0.01
TERMINAL LEAFLET WIDTH (mm)		
mean	36	19.3
std deviation	4.62	1.3
LSD/sig	2.61	P≤0.01
FLOWER DIAMETER (mm)		
mean	41	36.7
std deviation	3.93	3.3
LSD/sig	2.79	P≤0.01
PETAL COLOUR RHS		
midzone outside	52D	59C
midzone inside	43D	59B
margin outside	52D	59C
margin inside	52C	59B
PETAL BASAL SPOT INSIDE		
size	large	absent
colour/RHS	white 155C	-

Table 51 Rosa Varieties - continued

PETAL BASAL SPOT OUTSIDE		
size	large	absent
colour/RHS	white 155C	-

'Ruichris' syn 'Sunny Cupido'

Application No. 94/030 Accepted: 1 Feb 1994.

Applicant: De Ruiter's Nieuwe Rozen BV, The Netherlands.

Agent: Grandiflora Nurseries Pty Ltd, Cranbourne, VIC.

Description (Table 52, Figure 8) Plant: broad to bushy remontant pot rose. Stem: thorns present, length 5mm, lower surface flat. Young vegetative shoot: anthocyanin colouration weak to very weak, bronze to reddish brown. Leaf: very small, medium green, glossiness upper side weak to medium. Terminal leaflet: cross section slightly concave, margin undulation weak, base wedge shaped. Flower pedicel: hairs/prickles few to medium. Flower bud: profile ovate. Flower: very small, double, flattened convex upper, concave lower profile; petal very small, yellow colour group 13B-15C, basal spot absent both surfaces, margin reflexing medium, undulation medium; stamen filaments orange. Seed vessel: small to very small, pitcher shaped.

Origin Controlled pollination: Unknown seedling x Unknown seedling, 1991. Breeder: De Ruiter's Nieuwe Rozen BV, The Netherlands. Selection criteria: miniature rose plant suitable for production under glass or cover. Propagation: vegetative for many generations.

Comparative Trial Comparator: 'Lavglo'[Ⓛ]. Location: Cranbourne, VIC, Oct 1995 - Jan 1996. Conditions: plants grown in scoria hydroponic within environmentally controlled glasshouse. Measurements: 20 random samples collected over a four month period and validated by overseas test information.

Prior Applications and Sales

Country	Year	Status	Name Applied
Denmark	1992	Pending	'Ruichris'
Netherlands	1993	Pending	'Ruichris'
Germany	1993	Pending	'Ruichris'

First sold The Netherlands 1993.

Description: Phil Elliott, Grandiflora Nurseries Pty Ltd, Cranbourne VIC.

Table 52 Rosa varieties

	'Ruichris'	*'Lavglo' [Ⓛ]
TERMINAL LEAFLET LENGTH (mm)		
mean	38	24.7
std deviation	3.56	2.2
LSD/sig	2.27	P≤0.01

Table 52 *Rosa* Varieties - continued

FLOWER DIAMETER (mm)		
mean	38	43.4
std deviation	3.21	3.1
LSD/sig	2.42	P≤0.01
PETAL COLOUR (RHS)		
midzone outside	13B	13B
midzone inside	13B	12A
margin outside	13B	13B
margin inside	15C	12A

'Ruidiggel' syn 'Snowy Cupido'

Application No: 94/028 Accepted: 1 Feb 1994.

Applicant: **De Ruiter's Nieuwe Rozen BV**, The Netherlands.Agent: **Grandiflora Nurseries Pty Ltd**, Cranbourne, VIC.

Description (Table 53, Figure 5) Plant: broad to bushy remontant pot rose. Stem: thorns present, lower surface flat. Young vegetative shoot: anthocyanin colouration weak to very weak, bronze to reddish brown. Leaf: very small, medium green, medium glossiness upper side. Terminal leaflet: cross section slightly concave, margin undulation weak, base wedge shaped. Flower pedicel: hairs/prickles few. Flower bud: profile ovate. Flower: size very small to small, diameter 45mm, double, flattened convex upper, flat lower profile; petal very small, yellow white colour group RHS 4D/155A, basal spot absent both surfaces, margin reflexing medium, undulation medium; stamen filaments yellow. Seed vessel: very small, pitcher shaped.

Origin Controlled pollination: Unknown seedling x Unknown seedling 1991. Breeder: De Ruiter's Nieuwe Rozen BV, The Netherlands. Selection criteria: miniature rose plant suitable for production under glass or cover. Propagation: vegetative for many generations.

Comparative Trial Comparator: 'Meizogrel'[Ⓞ]. Location: Cranbourne, VIC, Oct 1995 - Jan 1996. Conditions: plants grown in scoria hydroponic within environmentally controlled glasshouse Measurements: 20 random samples collected over a four month period and validated by overseas test information.

Prior Applications and Sales

Country	Year	Status	Name Applied
Denmark	1993	Pending	'Ruidiggel'
Netherlands	1993	Pending	'Ruidiggel'
Germany	1993	Pending	'Ruidiggel'

First sold The Netherlands 1993.

Description: **Phil Elliott, Grandiflora Nurseries Pty Ltd**, Cranbourne, VIC.Table 53 *Rosa* varieties

	'Ruidiggel'	*'Meizogrel' [Ⓞ]
THORN LENGTH (mm)		
mean	6	1.8
std deviation	1.06	0.5
LSD/sig	0.64	P≤0.01
THORN PROFILE		
lowerside	flat	concave
TERMINAL LEAFLET LENGTH (mm)		
mean	36	24.1
std deviation	6.90	3.8
LSD/sig	4.23	P≤0.01
TERMINAL LEAFLET WIDTH (mm)		
mean	19	12
std deviation	2.65	1.2
LSD/sig	1.58	P≤0.01
TERMINAL LEAFLET		
shape of base	wedge shaped	obtuse
FLOWER PEDICEL		
thorns/hairs	few	absent
PETAL COLOUR (RHS)		
midzone outside	4D	157D
midzone inside	4D	157D
margin outside	155A	157D
margin inside	155A	157D

'Ruifire' syn 'Fire Festival'

Application No. 94/026 Accepted: 1 Feb 1994.

Applicant: **De Ruiter's Nieuwe Rozen BV**, The Netherlands.Agent: **Grandiflora Nurseries Pty Ltd**, Cranbourne, VIC.

Description (Table 54, Figure 1) Plant: bushy remontant pot rose. Stem: thorns present, length 3mm, lower surface concave. Young vegetative shoot: anthocyanin colouration, medium, reddish brown. Leaf: small medium to dark green, medium leaf glossiness upper side. Terminal leaflet: cross section flat, margin undulation absent or very weak, base rounded. Flower pedicel: hairs/prickles medium to many. Flower bud: profile broad-ovate. Flower: size very small, double, upper profile flattened convex, lower profile flattened convex; petal small, yellow orange colour group RHS 12A-13C; basal spot very small, yellow outside surface, small, yellow spot inside surface, margin reflexing medium to strong, undulation weak; stamen filaments yellow. Seed vessel: small, pitcher shaped.

Origin Controlled pollination: Unknown seedling x Unknown seedling 1990. Breeder: De Ruiter's Nieuwe Rozen BV, The Netherlands. Selection criteria: miniature rose plant suitable for production under glass or cover. Propagation: vegetative for many generations.

Comparative Trial Comparator: 'Meiselgra'[Ⓞ]. Location: Cranbourne, VIC, Oct 1995 - Jan 1996. Conditions: plants grown in scoria hydroponic within environmentally controlled glasshouse. Measurements: 20 random samples collected over a four month period and validated by over-seas test information.

Prior Applications and Sales

Country	Year	Status	Name Applied
Denmark	1992	Pending	'Ruifire'
Netherlands	1992	Pending	'Ruifire'
Germany	1992	Pending	'Ruifire'

First sold The Netherlands 1992.

Description: **Phil Elliott**, Grandiflora Nurseries Pty. Ltd, Cranbourne, VIC.

Table 54 Rosa varieties

	'Ruifire'	*'Meiselgra' [Ⓞ]
THORN PROFILE		
lower side	concave	strongly concave
TERMINAL LEAFLET LENGTH (mm)		
mean	31	25.3
std deviation	4.64	3.3
LSD/sig	3.09	P≤0.01
TERMINAL LEAFLET WIDTH (mm)		
mean	19	14.2
std deviation	3.24	2
LSD/sig	2.07	P≤0.01
FLOWER DIAMETER (mm)		
mean	46.5	35.3
std deviation	4.22	3
LSD/sig	2.81	P≤0.01
FLOWER PEDICEL		
thorns/hairs	medium to many	very few
PETAL COLOUR (RHS)		
mid zone outside	12A	57D
midzone inside	12A	57D
margin outside	13C	57D
margin inside	13C	57D
PETAL BASAL SPOT INSIDE		
size	small	very small
colour	yellow orange	white
RHS	9C	155D
PETAL BASAL SPOT OUTSIDE		
size	very small	very small
colour	yellow orange	green yellow
RHS	13C	1D

'Ruigal' syn 'Milana Festival'

Application No: 94/027 Accepted: 1 Feb 1994.

Applicant: **De Ruiter's Nieuwe Rozen BV**, The Netherlands.

Agent: **Grandiflora Nurseries Pty Ltd**, Cranbourne, VIC.

Description (Table 55, Figure 2) Plant: bushy remontant pot rose. Stem: thorns present, lower surface concave. Young vegetative shoot: anthocyanin colouration, weak, bronze to reddish brown. Leaf: size small to medium, colour medium green, glossiness upper side medium. Terminal leaflet: cross section flat, margin undulation absent to very weak, base rounded. Flower pedicel: hairs/prickles few to medium. Flower bud: profile broad-ovate. Flower: size very small to small, double, flattened convex upper and lower profile; petal small, red colour group RHS 40A-44B, basal spot medium yellow both surfaces, margin reflexing medium to strong, undulation weak; stamen filaments yellow. Seed vessel: small, pitcher shaped.

Origin Controlled pollination: Unknown seedling x Unknown seedling 1989. Breeder: De Ruiter's Nieuwe Rozen BV, The Netherlands. Selection criteria: miniature rose plant suitable for production under glass or cover. Propagation: vegetative for many generations.

Comparative Trial Comparator: 'Lavjack'[Ⓞ]. Location: Cranbourne, VIC, Oct 1995 - Jan 1996. Conditions: plants grown in scoria hydroponic within environmentally controlled glasshouse Measurements: 20 random samples collected over a four month period and validated by over-seas test information.

Prior Applications and Sales

Country	Year	Status	Name Applied
Denmark	1992	Pending	'Ruigal'
Netherlands	1992	Pending	'Ruigal'
Germany	1992	Pending	'Ruigal'

First sold Denmark 1992.

Description: **Phil Elliott**, Grandiflora Nurseries Pty. Ltd, Cranbourne, VIC.

Table 55 Rosa varieties

	'Ruigal'	*'Lavjack' [Ⓞ]
THORN LENGTH (mm)		
mean	6	3.9
std deviation	0.97	0.4
LSD/sig	0.60	P≤0.01
TERMINAL LEAFLET LENGTH (mm)		
mean	41	28.6
std deviation	3.72	3.1
LSD/sig	2.63	P≤0.01
TERMINAL LEAFLET WIDTH (mm)		
mean	23	15.9
std deviation	1.73	1.8
LSD/sig	1.36	P≤0.01

Table 55 *Rosa* Varieties - continued

FLOWER DIAMETER (mm)		
mean	41	31.2
std deviation	3.84	1.8
LSD/sig	2.30	P≤0.01
FLOWER PEDICEL		
thorns/hairs	few to medium	many
PETAL COLOUR (RHS)		
midzone outside	44B	43A
midzone inside	40A	40A
margin outside	44B	43A
margin inside	40A	44A
PETAL BASAL SPOT INSIDE		
size	medium	very small
colour	yellow	yellow
RHS	4D	4D
PETAL BASAL SPOT OUTSIDE		
size	medium	small
colour	yellow	white
RHS	4D	155D
SEED VESSEL SIZE		
	small	medium

'Ruipipi' syn 'Joker Festival'

Application No. 94/032 Accepted: 1 Feb 1994.

Applicant: **De Ruiter's Nieuwe Rozen BV**, The Netherlands.Agent: **Grandiflora Nurseries Pty Ltd**, Cranbourne, VIC.

Description (Table 56, Figure 7) Plant: broad-bushy remontant pot rose. Stem: thorns present, length 6mm, lower surface concave. Young vegetative shoot: anthocyanin very weak, bronze to reddish brown. Leaf: very small, width 20mm, medium green, leaf glossiness upper side medium to weak. Terminal leaflet: cross section slightly concave, margin undulation weak, base wedge shaped. Flower pedicel: hairs/prickles few. Flower bud: profile ovate. Flower: size very small to small, diameter 36mm, double, convex upper, concave lower profile; petal very small, red colour group RHS 44B-50B, basal spot small, yellow RHS 157D both surfaces, margin reflexing strong, undulation medium to strong; stamen filaments red. Seed vessel: small, funnel shaped.

Origin Controlled pollination: Unknown seedling x Unknown seedling 1989. Breeder: De Ruiter's Nieuwe Rozen BV, The Netherlands. Selection criteria: miniature rose plant suitable for production under glass or cover. Propagation: vegetative for many generations.

Comparative Trial Comparator: 'Meinotchot'[Ⓛ]. Location: Cranbourne, VIC, Oct 1995 - Jan 1996. Conditions: plants grown in scoria hydroponic within environmentally controlled glasshouse. Measurements: 20 random samples collected over a four month period and validated by overseas test information.

Prior Applications and Sales

First sold The Netherlands 1993.

Description: **Phil Elliott, Grandiflora Nurseries Pty. Ltd**, Cranbourne, VIC.Table 56 *Rosa* varieties

	'Ruipipi'	**'Meinotchot' [Ⓛ]
THORN PROFILE		
lower side	concave	concave
THORN LEAFLET LENGTH (cm)		
mean	27	33.3
std deviation	2.93	1.9
LSD/sig	1.90	P≤0.01
FLOWER PEDICEL		
thorns/hairs	few	many
PETAL COLOUR (RHS)		
midzone outside	50B	49B
midzone inside	44B	59A
margin outside	50B	59B
margin inside	44B	59A
PETAL BASAL SPOT INSIDE		
size	small	absent
colour	yellow	-
RHS	157D	-
PETAL BASAL SPOT OUTSIDE		
size	small	absent
colour	yellow	-
RHS	157B	-

'Ruirodella' syn 'Pink Festival'

Application No. 94/025 Accepted: 1 Feb 1994.

Applicant: **De Ruiter's Nieuwe Rozen BV**, The Netherlands.Agent: **Grandiflora Nurseries Pty Ltd**, Cranbourne, VIC.

Description (Table 57, Figure 6) Plant: bushy remontant pot rose. Stem: thorns present, lower surface concave. Young vegetative shoot: anthocyanin medium, reddish brown. Leaf: small medium green, leaf glossiness upper side weak. Terminal leaflet: cross section flat, margin undulation absent or very weak, base rounded. Flower pedicel: hairs/prickles many. Flower bud: profile broad-ovate. Flower: size very small, double, upper and lower profile flattened convex; petal small, red purple colour group RHS 60B-62A, basal spot medium, white inside, small to medium white outside, margin reflexing strong, undulation weak; stamen filaments yellow. Seed vessel: small, pitcher shaped.

Origin Controlled pollination: Unknown seedling x Unknown seedling, 1990. Breeder: De Ruiter's Nieuwe Rozen BV, The Netherlands. Selection criteria: miniature rose plant suitable for production under glass or cover. Propagation: vegetative for many generations.

Comparative Trial Comparator: 'Meilipo'^(d). Location: Cranbourne, VIC, Oct 1995 - Jan 1996. Conditions: plants grown in scoria hydroponic within environmentally controlled glasshouse Measurements: 20 random samples collected over a four month period and validated by overseas test information.

Prior Applications and Sales

First sold Australia 1995.

Description: **Phil Elliott, Grandiflora Nurseries Pty Ltd**, Cranbourne, VIC.

Table 57 Rosa varieties

	'Ruirodella'	**'Meilipo' ^(d)
THORN LENGTH (mm)		
mean	2	4.6
std deviation	1.33	0.6
LSD/sig	0.79	P≤0.01
TERMINAL LEAFLET LENGTH (mm)		
mean	37	27.4
std deviation	4.7	4.5
LSD/sig	1.83	P≤0.01
TERMINAL LEAFLET WIDTH (mm)		
mean	24	16.5
std deviation	1.86	2.8
LSD/sig	1.83	P≤0.01
TERMINAL LEAFLET		
shape of base	rounded	obtuse
FLOWER DIAMETER (mm)		
mean	49	35.8
std deviation	4.49	3.4
LSD/sig	3.06	P≤0.01
FLOWER PEDICEL		
thorns/hairs	many	few
PETAL COLOUR (RHS)		
mid zone outside	60B	62C
midzone inside	62A	62B
margin outside	60B	62B
margin inside	62A	62B
PETAL BASAL SPOT INSIDE		
size	medium	absent
colour	155B	-
PETAL BASAL SPOT OUTSIDE		
size	small to medium	absent
colour	155B	-
STAMENS FILAMENT COLOUR		
	yellow	green

'Victoria Gold' syn 'Welgold'

Application No: 93/216 Accepted: 29 Oct 1993.
Applicant: **Eric Welsh Roses**, Erina, NSW.

Description (Table 58, Figure 14) Plant: shrub rose, height and width medium, very early, almost continuous flowering. Stem: thorn lower profile deep concave. Young vegetative shoot: anthocyanin very weak. Leaf: size medium, medium green, medium glossy. Terminal leaflet: cross section slightly concave, undulation of margin weak, length medium, width medium, base rounded. Flower bud: ovate. Flower: pedicel with few glandular hairs, clusters 3-5, double, diameter medium, view from above round, profile upper flat, lower flat, fragrance strong, sepal extensions absent to weak; petal size medium, number medium, colour inner RHS 12A, outer RHS 7A, basal spot absent, reflexing of margin weak, undulation of margin strong; petal outer yellow. Seed vessel: large, pitcher shaped.

Origin Controlled pollination: ('Gold Bunny' x Unnamed seedling) x 'Gold Medal' 1992. Breeder: Eric Welsh, Erina, NSW. Selection criteria: vigorous growth, quick repeating of flowering, strong gold colour flowers slow to fade. Propagation: vegetative through many generations.

Comparative Trial Comparator: 'Gold Medal'. Location: Erina, NSW, Apr 1996. Conditions: plants grown in open beds. Trial design: unreplicated. Measurements: on six plants grown as single plant replicates.

Prior Applications and Sales Nil.

Description: **Greg Lowe**, Terrigal, NSW.

Table 58 Rosa varieties

	'Victoria Gold'	**'Gold Medal'
THORNS		
	present	absent
SEPAL EXTENSION		
	weak	medium
PETAL NUMBER		
mean	44.8	34.2
std deviation	4.31	4.87
LSD/sig	6.77	P≤0.01
PETAL LENGTH (mm)		
mean	41.4	52.9
std deviation	1.99	5.1
LSD/sig	1.8	P≤0.01
PETAL WIDTH (mm)		
mean	41.2	53.3
std deviation	2.37	7.08
LSD/sig	4.25	P≤0.01
FLOWER FRAGRANCE		
	medium	weak

'Welpink' syn 'Muskstick'

Application No: 93/244 Accepted: 6 Dec 1994.
Applicant: **Eric Welsh Roses**, Erina, NSW.

Description (Table 59, Figure 12) Plant: miniature rose, very early, almost continuous flowering. Stem: thorn lower deep concave. Young vegetative shoot: anthocyanin weak, reddish brown. Leaf: size large, medium green, weak glossy. Terminal leaflet: cross section slightly concave, undulation of margin weak, length medium, width medium, base rounded. Flower bud: ovate. Flower: pedicel with medium glandular hairs, clusters 1-3, double, petal count medium, diameter medium, view from above round, profile upper flattened convex, lower flat, fragrance strong, sepal extensions weak; petal medium, colour inner RHS 65C, outer RHS 65C, basal spot inside and outside RHS 155A, reflexing of margin medium, undulation of margin weak; petal outer yellow. Seed vessel: medium, pitcher shaped.

Origin Controlled pollination: 'Avandel' x ('Popcorn' x 'Sexy Remy'), 1992. Breeder: Eric Welsh, Erina, NSW. Selection criteria: vigorous growth, quick repeating of flowering, strong red coloured flowers which do not fade or 'blue' with age. Propagation: vegetative through many generations.

Comparative Trial Comparator: 'Delicious'[Ⓛ]. Location: Terrigal, NSW, Apr 1996. Conditions: plants grown in 100mm pots in a peat based mix with 4kg/m³ slow release fertilizer, overhead watered. Trial design: randomised complete blocks with three replicates. Measurements: on all 15 plants.

Prior Applications and Sales First sold Australia 1995.

Description: **Greg Lowe**, Terrigal, NSW.

Table 59 Rosa varieties

	'Welpink'	*'Delicious' [Ⓛ]
THORN LENGTH (mm)		
mean	5.8	4.6
std deviation	0.7	0.7
LSD/sig	0.7	P≤0.01
LEAFLET LENGTH (mm)		
mean	43.3	36.3
std deviation	4.9	3.7
LSD/sig	4.0	P≤0.01
SEPAL LENGTH (mm)		
mean	21.7	29
std deviation	1.9	4.6
LSD/sig	2.7	P≤0.01
SEPAL EXTENSION		
	absent	weak
PETAL REFLEXING		
	strong	weak
STAMEN FILAMENT COLOUR		
	yellow	white/pale green

'Welred' syn 'Eric the Red'

Application No: 93/243 Accepted: 26 Nov 1994.

Applicant: **Eric Welsh Roses**, Erina, NSW.

Description (Table 60, Figure 13) Plant: miniature rose, very early, almost continuous flowering. Stem: thorn lower profile concave. Young vegetative shoot: anthocyanin medium, reddish brown. Leaf: size large, dark green, medium glossy. Terminal leaflet: cross section slightly concave, undulation of margin weak, length medium, width medium, base rounded. Flower pedicel: glandular hairs medium. Flower bud: ovate. Flower: clusters 3-8, double, diameter medium, view from above round, profile upper flat, lower flattened convex, fragrance absent to weak, sepal extensions absent; petal size medium, number medium, colour inner RHS 53A, outer RHS 53A, basal spot inside RHS 1C, outside RHS 1D, reflexing of margin absent, undulation of margin weak; stamen outer red/purple. Seed vessel: medium, pitcher shaped.

Origin Controlled pollination: 'Red Meilandina' x Unnamed seedling, 1992. Breeder: Eric Welsh, Erina, NSW. Selection criteria: vigorous growth, quick repeating of flowering, strong red coloured flowers which do not fade or 'blue' with age. Propagation: vegetative through many generations.

Comparative Trial Comparator: 'Meinochot'[Ⓛ]. Location: Terrigal, NSW, Apr 1996. Conditions: plants were grown in 100mm pots in a peat based mix with 4kg/m³ slow release fertilizer, overhead watered. Trial design: randomised complete blocks with three replicates. Measurements: on all 15 plants.

Prior Applications and Sales First sold Australia 1995.

Description: **Greg Lowe**, Terrigal, NSW.

Table 60 Rosa varieties

	'Welred'	*'Meinochot' [Ⓛ]
THORN LENGTH (mm)		
mean	8.1	4.6
std deviation	0.8	0.8
LSD/sig	0.9	P≤0.01
LEAFLET LENGTH (mm)		
mean	47.5	31.4
std deviation	2.5	2.9
LSD/sig	3.4	P≤0.01
LEAFLET WIDTH (mm)		
mean	28.5	17.7
std deviation	1.9	1.4
LSD/sig	2.1	P≤0.01
SEPAL LENGTH (mm)		
mean	33	23.5
std deviation	4.5	4.0
LSD/sig	3.2	P≤0.01

Table 60 *Rosa* Varieties - continued

NUMBER OF PETALS		
mean	44	73.1
std deviation	8.8	4.4
LSD/sig	12.2	P≤0.01
FLOWER DIAMETER (mm)		
mean	55.5	34.7
std deviation	3.1	2.8
LSD/sig	5.7	P≤0.01
PETAL LENGTH (mm)		
mean	27.3	17.7
std deviation	2.6	0.9
LSD/sig	1.8	P≤0.01
PETAL WIDTH (mm)		
mean	25.7	16.1
std deviation	4.3	1.2
LSD/sig	3.2	P≤0.01

SCHOLTZIA *Scholtzia oligandra*

'White Cascades'

Application No: 93/206 Accepted 21 Sep 1993.
Applicant: **Western Flora**, Coorow, WA.

Description (Table 61, Figure 30) Plant: medium shrub. Stem: thickness medium, dark green, obovate, appressed on new growth. Flower: density high, terminal spikes, bud colour green; petal colour new white RHS 155D, mature white RHS 155D, nectary colour new white RHS 155A, mature RHS 151A.

Origin Seedling selection: wild population of *Scholtzia oligandra*. Breeder: Brian Jack, Coorow, WA. Selection criteria: plant habit, floral characteristics. Propagation: vegetative.

Comparative Trial Comparator: wild *Scholtzia oligandra*. Location: Coorow, WA, Sep 1994 - Sep 1995. Conditions: planted Sep 1994 in 200mm pots with local sand, peat moss, perlite mixture and slow release fertilizer, pH 6.5, hot temperature with winter rainfall. Trial design: ten plants in unreplicated pots. Measurements: made on random samples from all ten plants.

Prior Applications and Sales Nil.

Description: **Brian Jack**, Coorow, WA.

Table 61 *Scholtzia* varieties

	'White Cascades'	* <i>Scholtzia oligandra</i>
PLANT HEIGHT (mm)		
mean	512.50	642.0
std deviation	31.468	135.88
LSD/sig	51.09	P≤0.01

Table 61 *Scholtzia* Varieties - continued

NUMBER OF STEMS from soil level		
mean	5.0	2.5
std deviation	1.25	1.08
LSD/sig	1.58	P≤0.01
NECTARY COLOUR		
mature	white	red purple
RHS	151A	67A

STRAND MEDIC *Medicago littoralis*

'Herald' syn 'Z-245'

Application No: 94/212 Accepted: 25 Oct 1994.
Applicant: **South Australian Minister for Primary Industries**, Adelaide, SA.

Description (Table 62, Figure 52) Plant: diploid (2n=16), early flowering annual medic. Leaflet: dark brown blotch on surface, variably obovate, lower to mid-upper leaflet position, purple flecking on underside. Fruit: pod coil clockwise, whorls 3.8 (range 3-4), length 3.9mm (3.0-5.3mm), width 5.1mm (4.5-5.9mm), weight 41mg (22-56mg). Seed: number per pod 5.8 (4-8), weight 2.16mg. Aphid resistance: resistant to spotted alfalfa aphid (*Therioaphis trifolii* fm *maculata*)(SAA), resistant to bluegreen aphid (*Acyrtosiphon kondoi*)(BGA), moderately resistant to cowpea aphid (*Aphis craccivora*)(CPA).

Origin Controlled pollination: 'SA 10419' x 'Harbinger'. 'Herald' was selected from F8 aphid resistant progeny of the third backcross to 'Harbinger'. Breeder: AWH Lake and staff of the Medic Breeding Unit, SARDI, Adelaide, SA. Selection criteria: aphid resistance (BGA, SAA), herbage production and seed yield. Propagation: seed.

Comparative Trial Comparators: 'Harbinger', 'Harbinger AR'. Location: Northfield Research Laboratories, Adelaide, SA, Jun 1995 - Dec 1995. Conditions: plants space planted in rows in soil, grown in full sun. Trial design: randomised complete block, four replicates of 20 plants. Measurements: on all available plants including two successive generations of 'Herald'; aphid resistance data based on results of repeated testing under controlled glasshouse conditions, plants inoculated with aphids at three weeks of age and rated for resistance/susceptibility after 2-3 weeks.

Prior Applications and Sales Nil.

Description: **Jake Howie**, SARDI, Adelaide, SA.

Table 62 *Medicago* varieties

	'Herald'	**'Harbinger'	**'Harbinger AR'
LEAFLET			
dark brown blotch:			
upper surface	present	absent	absent
purple flecking:			
underside	present	rare	absent
FLOWERING TIME days to first flower, sown 20/6/95			
mean	70.3	73.3	72.8
std deviation	2.07	2.64	2.39
LSD/sig	1.57	P≤0.01	P≤0.01
POD COIL DIRECTION (Heyn, 1963)			
	clockwise	anticlockwise	anticlockwise
SPOTTED ALFALFA APHID RESISTANCE (<i>Therioaphis trifolii</i> fm <i>maculata</i>) (1 = resistant, 9 = very susceptible)			
	1	9	1
BLUEGREEN APHID RESISTANCE (<i>Acyrtosiphon kondoi</i>) (1 = resistant, 9 = very susceptible)			
	1	5	1
COWPEA APHID RESISTANCE (<i>Aphis craccivora</i>) (1 = resistant, 9 = very susceptible)			
	5	5	6

STRAWBERRY CLOVER *Trifolium fragiferum*

'Grasslands Onward'

Application No: 95/293 Accepted: 18 Dec 1995.
Applicant: **New Zealand Pastoral Agriculture Research Institute Limited, AgResearch Grasslands Research Centre**, Palmerston North, New Zealand.
Agent: **Mr A (Tony) E. Stratton, AgResearch Grasslands**, Albury, NSW.

Description (Table 63, Figure 55) Plant: dense stoloniferous, nodal rooting summer active perennial legume. Leaf: small, dark green, elliptic to obovate, lower lamina glabrous or pubescent, leaf markings >70% nil. Peduncle: scapose exceeding leaves. Flower: many, corolla pale pink to crimson, standard ~6mm. Seed: medium to dark brown, ovoid truncate.

Origin Selection and polycross: 88 seed lines from old pasture and wasteland sites in New Zealand, 20 overseas countries and cultivars 'O'Connors' and 'Palestine'. The residual after selection 81 plants were derived from 17 seed lines and inter-pollinated. These had origins in Afghanistan, Algeria, Australia, France, Greece, Italy, Spain and New Zealand. Largest contribution (32 plants) from pastures and old sites in North and South Islands of New Zealand. Breeder: Dr W Rumball, AgResearch

Grasslands, Palmerston North, New Zealand. Selection criteria: maturity, leaf size, vigour and disease over four cycles. Propagation: seed.

Comparative trial Comparators: 'O'Connors', 'Palestine'. Location: AgResearch Grasslands, Palmerston North, New Zealand, 1989- 1990, 1995- 1996. Conditions: seed for second trial germinated in petri dishes and pricked into seed flats, transferred to open field on 26/6/95, recent Kairanga silt loam series soil, non-irrigated, hand weeded. Trial design: 100 spaced plants of each variety at 60cm between plants and 1.2m between replicates in RCB design of 10 plants x 10 reps with border plants to eliminate outside effects. Measurements: from all 100 plants.

Prior Application and Sales Nil.

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

Table 63 *Trifolium* varieties

	'Grasslands Onward'	**'O'Connors'	**'Palestine'
LEAFLET LENGTH (mm)			
mean	16.11	16.48	20.12
std deviation	2.42	2.56	2.43
LSD/sig	1.73	ns	P≤0.001
LEAFLET WIDTH (mm)			
mean	11.44	11.14	13.76
std deviation	2.10	1.65	1.76
LSD/sig	0.84	ns	P≤0.001
PEDUNCLE LENGTH (mm)			
mean	128.83	151.59	161.65
std deviation	37.85	52.77	64.92
LSD/sig	21.05	P≤0.01	P≤0.001
DAYS TO MEAN FLOWERING from date of first flowering			
mean	9.75	18.16	14.22
std deviation	5.95	7.85	8.00
LSD/sig	2.81	P≤0.001	P≤0.001
FLOWER NUMBER PER STOLON			
mean	62.10	30.00	-
std deviation	28.51	18.47	-
LSD/sig	17.91	P≤0.001	-

SUNFLOWER *Helianthus annuus*

'Daniel'

Application No: 94/085 Accepted: 16 May 1994.
Applicant: **Daniel Yichki, Kibutz Sha'ar Ha'amakim**, Israel.
Agent: **Gordon Berkenshaw, Tandou Ltd, Gol Gol**, NSW.

Description (Table 64, Figure 54) Plant: unbranched, height medium 80-140cm, flowering 60 days from sowing. Stem: weakly hairy. Leaf: number 22-28, large, cordate, medium green, glossy, anthocyanin absent, serration coarse and regular, flat, wings sometimes present, angle of lateral veins right angled, height of the blade tip medium, angle between lower part of petiole and stem medium, blistering medium to strong. Flower head: medium to large, flat to convex on grain side; bract number medium, rounded to triangular on back of head, anthocyanin nil; ray floret number medium, rounded, yellow; disk floret yellow, stamen anthocyanin absent. Seed: large, ovoid to elongate, thick, brown with no mottling, marginally striped white to grey.

Origin Controlled pollination: mutations and selections of 'DII'. Breeder: Daniel Yichaki, Kibbutz Sha'ar Ha'amakim, Israel. Selection criteria: large kernel size, low oil content, good flavour for direct human consumption. Propagation: seed.

Comparative Trial Description based on overseas test report from Israel, verified by the qualified person in a trial conducted at Buronga, NSW 1995. Conditions: sandy loam soil, pH 7.8 in open beds. Trial design: random sampling. Measurements: 50 random samples from 1000 plants in rows. The qualified person states that there are no close comparators in Australia.

Prior Applications and Sales

Country	Year	Status	Name Applied
Israel	1988	Accepted	'Daniel'

Description: Megan Edwards, Mildura, VIC.

Table 64 *Helianthus* variety

'Daniel'	
PLANT	
hypocotyl anthocyanin colouration	absent or very weak
natural height	short to medium
branching	absent (95%)
type of branching	fully branched with central head
stem: hairiness at the top	absent to weak
number of leaves main stem	medium to high
time of flowering	early to medium
natural position of the closest lateral head to the central head	below
PLANT HEIGHT(cm)	
mean	127.9
std deviation	13.8
LEAF	
size	large to very large
shape	cordate (95%)
colour	medium green
anthocyanin colouration on margin of young leaves	absent
glossiness	present

Table 64 *Helianthus* Varieties - continued

blistering	medium to strong
fineness of serration	coarse
regularity of serration	regular
shape of cross section	flat
wings	sometimes present
angle of lateral veins	right angle or nearly right angle
blade tip height compared to insertion of petiole at 2/3 plant height	medium
angle between lower part of petiole and stem	medium to large

NUMBER OF LEAVES EXCLUDING COTYLEDONS

mean	25.1
std deviation	2.9

LEAF LENGTH (cm)

mean	44.6
std deviation	5.1

LEAF WIDTH (cm)

mean	43.2
std deviation	4.9

LEAF LENGTH TO WIDTH RATIO

mean	1.03
std deviation	0.1

HEAD

size	large
attitude at maturity	vertical to turned down
shape of grain side	flat to convex
number of bracts on back	many

BRACT

shape	elongated to rounded
anthocyanin	absent

RAY FLOWER

number	medium
shape	rounded
colour	yellow

DISK FLOWER

colour	yellow
anthocyanin of stigma	absent or very weak

SEED

size	large
shape	ovoid elongate to ovoid wide
thickness	thick
main colour	black
mottling	absent
stripes	present
colour of stripes	white to grey
position of stripes	marginal or lateral

SEED LENGTH (mm)

mean	27.3
std deviation	2.2

SEED WIDTH (mm)

mean	11.1
std deviation	0.8

SEED LENGTH TO WIDTH RATIO

mean	2.5
std deviation	0.2

Table 64 *Helianthus* Varieties - continued

SEED THICKNESS(mm)	
mean	5.6
std deviation	0.5
SEED WEIGHT (1000 seeds) (g)	
mean	289.6
std deviation	32.5
STERILITY OF SEEDS (%)	
mean	41.9
std deviation	17.9
GROSS YIELD PER HEAD (g)	
mean	165.9
std deviation	36.8
NET YIELD PER HEAD (g)	
mean	41.9
std deviation	17.9

TALL FESCUE *Festuca arundinacea*

'Bombina'

Application No: 94/134 Accepted: 15 Jun 1994.
Applicant: **Pasture Wise**, Kilmore, VIC.

Description (Table 65, Figure 53) Plant: growth habit semi-prostrate, autumn-winter growth good, Leaf: roll up under stress, seed head height below average, rhizomes produce new shoots 50-100mm out from tussock.

Origin Isolated polycross: elite plants from breeders reference 'Fescue 596'; original Mediterranean material obtained via the United States Department of Agriculture. Breeder: Ian Aberdeen, Kilmore, VIC. Selection criteria: winter growth, active rhizomes, seed production.

Comparative Trial Comparators: 'Grasslands Advance'^φ, 'Roa', 'Triumph', 'Cajun', 'Maximise', 'Demeter'. Location: Cathkin, VIC. Conditions: Plants grown in open ground, irrigated. Trial design: 60 spaced plants of each variety in four randomly allocated replicates. Measurements: recorded during 1995, Duncan's Multiple Range test used for mean comparisons.

Prior Applications and Sales Nil.

Description: **Ian Aberdeen**, Kilmore, VIC.

'Midwin'

Application No: 94/099 Accepted: 6 May 1994.
Applicant: **Pasture Wise**, Kilmore, VIC.

Description (Table 65, Figure 53) Plant: growth habit distinctly upright, resistant to crown rust in Victoria, superior leaf growth in mid winter. Leaf: dark green.

Origin Isolated polycross: elite plants from breeders reference 'Fescue 91'. Breeder: Ian Aberdeen, Kilmore, VIC. Selection criteria: winter growth, spring seedhead production.

Comparative Trial Comparators: 'Grasslands Advance'^φ, 'Roa', 'Triumph', 'Cajun', 'Maximise', 'Demeter'. Location: Cathkin, VIC. Conditions: plants grown in open ground, irrigated. Trial design: 60 spaced plants of each variety in four randomly allocated replicates. Measurements: recorded during 1995, Duncan's Multiple Range test used for mean comparisons.

Prior Applications and Sales Nil.

Description: **Ian Aberdeen**, Kilmore, VIC.

WAXFLOWER *Chamelaucium uncinatum*

'Cascade Brook'

Application No: 93/161 Accepted: 19 Jul 1993.
Applicant: **AJ Newport & Son Pty Ltd**, Winmalee, NSW.

Description (Table 66, Figure 24) Plant: cascading new growth in forced conditions, flowering winter and summer. Flower: immature diameter medium; bud number medium to high, purple, operculum red, floral tube mid-region yellow-green or red-purple; petal purple maturing to darker purple, outline obovate, calyx lobe red-purple maturing to purple; floral tube outline flared, diameter medium, midpoint yellow-green developing to red in summer; style immature colour red-purple maturing to white; nectary immature green RHS 143A, mature greyed-purple RHS 187B.

Origin Controlled pollination: accessions 'GW23' and 'GW8' in 1988. Breeders: TP Angus and NF Derera, of AJ Newport and Son Pty Ltd. Selection criteria: flower colour and size, flowering time and plant habit. Stability confirmed over two vegetatively propagated generations. Commercial propagation: vegetative.

Comparative trials Comparators: 'Purple Pride' and 'Cascade Mist'. Location: AJ Newport & Son Pty Ltd, Winmalee, NSW. Conditions: rooted cuttings in commercial potting mix. Potted Mar, 1995. Plants watered as required, liquid nutrients supplied weekly, plant protection sprays applied as necessary. Measurements: from 30 plants of each genotype arranged in a completely randomised design.

Prior Applications and Sales First sale Australia Feb 1994.

Description prepared by **TP Angus** and **MR Corlis**, **AJ Newport & Son Pty Ltd**, Winmalee, NSW.

Table 65 *Festuca* varieties

	'Midwin'	'Bombina'	*'Grasslands Advance' [Ⓛ]	*'Roa'	*'Triumph'	*'Cajun'	*'Maximise'	*'Demeter'
WINTER GROWTH (1= minimal, 9=prolific) LSD(P0.01)= 2.255								
mean	7.6a	5.4abc	4.9bc	5.5abc	5.0bc	5.3bc	3.8c	5.3bc
PLANT HABIT (1=upright, 9=prostrate) LSD(P0.01)= 1.690								
mean	4.5ef	6.3de	5.7def	6.4cde	8.4ab	7.0bcd	8.8a	8.0abc
HEADING DAYS (from 1Sep) LSD(P0.01)= 6.61								
mean	50.3a	50.9a	46.7a	52.1a	24.2c	35.2b	46.0a	35.0b
std deviation	6.44	6.84	6.71	8.36	6.55	8.29	5.84	5.48
HEAD HEIGHT (cm) LSD(P0.01)= 21.41								
mean	143.0a	111.2bc	142.5a	137.1ab	126.1abc	124.4abc	109.0c	128.5abc
std deviation	10.8	10.9	18.4	16.0	12.5	10.3	14.7	11.3
FLAG LEAF LENGTH (mm) LSD(P0.01)= 62.72								
mean	264ab	261ab	231abcd	228abcd	192cd	203bcd	172d	242abc
std deviation	62.0	65.3	56.6	50.9	40.7	54.0	63.4	69.5
FLAG LEAF WIDTH (mm) LSD(P0.01)= 1.20								
mean	9.0ab	7.0cde	8.9ab	9.5a	7.5cd	8.0bc	7.3cde	9.3a
std deviation	1.54	1.53	1.9	1.65	1.28	1.82	1.68	2.55
SPIKE LENGTH (mm) LSD(P0.01)= 35.21								
mean	325abc	280de	335a	331ab	238f	267ef	260ef	296bcde
std deviation	57.1	45.3	50.1	53.5	39.5	40.8	423.8	47.9
AWN LENGTH (mm) LSD(P0.01)= 0.90								
mean	2.3abc	2.8abc	2.4abc	3.3a	2.6abc	2.0c	2.2bc	2.7abc
std deviation	0.85	0.99	0.87	1.13	1.12	1.06	1.09	0.88

Note: Superscripts a,b,c,d,e and f are the grouping ranges within which the varietal mean values are included.

Table 66 *Chamelaucium* varieties

	'Cascade Brook'	*'Purple Pride'	*'Cascade Mist'
PLANT HABIT	cascading	erect	cascading
BUD NUMBER winter flowering			
mean	28.7	17.9	23.2
std deviation	11.36	7.6	9.34
LSD/sig	8.8	P0.01	ns
BUD NUMBER summer flowering			
mean	83.0	66.8	105.0
std deviation	31.35	29.5	32.61
LSD/sig	19.73	ns	P0.01
BUD COLOUR (RHS)			
with operculum	red	red	yellow-green (summer) orange-red ¹ (winter)
	42C	48A	145A, 34B/35A
without operculum	purple	purple	white or purple ¹
	75CB	75A	155D, 75D
floral tube, mid-region	yellow-green ¹ red-purple	red-purple ¹ yellow-green	yellow-green
	144B, 59A	59A, 144B	144B, 149B

Table 66 *Chamelaucium* Varieties - continued

FLOWER DIAMETER(mm) winter flowering			
mean	18.3	16.0	18.6
std deviation	0.82	1.01	1.20
LSD/sig	0.64	P0.01	ns
FLOWER DIAMETER (mm) summer flowering			
mean	15.5	14.6	14.4
std deviation	0.58	0.83	0.62
LSD/sig	0.44	P0.01	ns
PETAL COLOUR (RHS)			
immature	purple 77DC	purple 75A	white 155D
mature (20 days after bud burst)	purple 77C	red-purple 72B	white 155DA
STYLE COLOUR (RHS)			
immature	red-purple 63D	red-purple 62D	white 155CA
mid-mature	white 155D	red-purple 62D	white 155C
mature	white 155D	white 155D	white (summer) red-purple (winter) ¹ 155C 60B, 63B
CALYX LOBE COLOUR			
mid-mature RHS	red-purple 62DC	red-purple 72D	white 155D
mature RHS	purple 76D	purple 77B	white 155DA
FLORAL TUBE OUTLINE mature			
	flared	conical	flared
FLORAL TUBE DIAMETER winter flowering, mature			
mean	8.0	7.5	8.2
std deviation	0.49	0.46	0.63
LSD/sig	0.33	P0.01	ns
FLORAL TUBE DIAMETER summer flowering, mature			
mean	7.1	6.8	6.9
std deviation	0.59	0.36	0.32
LSD/sig	0.28	P0.01	ns
FLORAL TUBE COLOUR (RHS)			
mid-point	yellow-green ¹ red 144C, 42C	red-purple ¹ greyed red 59A, 178A	yellow-green ¹ green 153A, 143C

Note 1: RHS colour determinations with divergent predominant colour groups observed, most frequent listed first.

WAXFLOWER

Chamelaucium megalopetalum x *C. uncinatum*

'Blondie'

Application No: 94/170 Accepted 27 Jul 1994.

Applicant: **Western Flora**, Coorow, WA.

Description (Table 67, Figure 28) Plant: diploid, early flowering, vigour medium, shrub. Stem: thickness medium (3.0mm), branch angles medium (49.500), internode length medium (10.5mm). Leaf: length medium (12.7mm) thickness medium, weakly uncinata. Flower: density medium (mean 22.6), arrangement broad distal, size medium (17.8mm), fragrance slight; bud large, red RHS

60A, apical colour (operculum lost) white RHS 155 D; petal outline obovate, colour white RHS 155 C, colour development slow, mature petal colour white RHS 155B; floral tube fluting conspicuous, outline flared, diameter medium (4.3mm), mid point colour green, end colour green; nectary colour new yellow/green RHS 146B, mature purple/red RHS 59A; staminode outline narrow triangular, collar colour mature pale pink; sepal mature calyx lobe colour white; style mature colour white.

Origin Controlled pollination: *Chamelaucium megalopetalum* x *C. uncinatum* 'Purple Pride'. Breeder: Brian Jack, Coorow, WA. Selection criteria: hardy, vigorous, early flowering, floral characteristics, very long flowering and very long vase life. Propagation: vegetative.

Comparative Trial Comparators: *Chamelaucium megalopetalum*, 'Purple Pride'. Location: Coorow, WA, Aug 1993 - Aug 1994. Conditions: planted Aug 1993 in 200 mm pots in local sand, peat moss, perlite mixture with slow release fertilizer, pH 6.5 hot temperature with winter rainfall. Trial design: ten plants in unreplicated pots. Measurements: made on random samples from all ten plants.

Prior Applications and Sales Nil.

Description: **Brian Jack**, Coorow WA.

Table 67 *Chamelaucium* varieties

	'Blondie'	**Purple Pride'	* <i>Chamelaucium megalopetalum</i>
GROWTH VIGOUR			
	medium	medium	slow
STEM THICKNESS (mm)			
top 5 branches at 10cm from their base			
mean	3.02	3.55	2.2
std deviation	0.57	0.62	0.34
LSD/sig.	0.62	ns	P≤0.01
INTERNODE LENGTH (mm) top 5 internodes			
mean	10.5	16.33	9.26
std deviation	1.70	3.35	3.30
LSD/sig.	2.69	P≤0.01	ns
BRANCH ANGLES (degrees) top 5 nodes			
mean	49.5	43.44	33.78
std deviation	3.52	3.53	3.30
LSD/sig.	3.18	P≤0.01	P≤0.01
MATURE LEAF SIZE non axillary leaves			
mean	12.7	32.9	10.4
std deviation	1.26	2.31	1.35
LSD/sig.	1.86	P≤0.01	P≤0.01
LEAF TIP			
	weakly uncinata	strongly uncinata	weakly uncinata

Table 67 *Chamelaucium* Varieties - continued

FLOWERING TIME			
	early	early	medium
BUD COLOUR (RHS)			
	red purple 60A	red 46A	red 46B
apical colour	white 155D	pale purple 80A	white 155B
tube colour	green 144B	green 146C	green 145A
FLOWER			
arrangement	broad distal	broad distal	narrow distal
fragrance	slight-absent	present	slight-absent
FLOWER DENSITY			
flowers from top flowering branch to 5 nodes below			
mean	22.6	86.0	65.33
std deviation	7.15	41.58	20.81
LSD/sig.	30.61	P≤0.01	P≤0.01
CALYX LOBE COLOUR			
21-35 days after anthesis, petals removed			
	white	pale purple	white
FLORAL TUBE			
fluting	conspicuous	slight/absent	slight/absent
predominant outline	flared	flared	conical
mid point colour	green	red/brown	green
end colour	green	red/brown	green
FLORAL TUBE DIAMETER (mm) maximum distally			
mean	4.3	7.0	6.8
std deviation	0.42	0.10	0.44
LSD/sig.	0.58	P≤0.01	P≤0.01
PETAL			
outline	obovate	obovate	obovate
colour (RHS):			
immature	white 155C	purple 78A	white 155C
mature	white 155B	purple 59C	white 155D occasional pink blush
development	slow	medium	slow
NECTARY COLOUR (RHS) from top, petals removed			
new	yellow/green 146B	greened orange 177D	green 145A
mature	purple/red 59A	greyed purple 187A	green/grey 141B
STAMINODE 21-35 days after anthesis, petals removed			
outline	narrow triangular	broad triangular	medium triangular
collar colour	pale pink/purple	red purple	white
MATURE STYLE COLOUR 21-35 days after anthesis			
	white	dark red purple	white

'Madonna'

Application No: 93/203 Accepted 21 Sep 1993.

Applicant: **Western Flora**, Coorow, WA.

Description (Table 68, Figure 27) Plant: diploid, medium flowering, vigorous shrub. Stem: thickness medium (4.15mm), branch angles medium (45.800), internode length medium (13.9mm). Leaf: length medium (16.7mm), thickness medium, weakly uncinata. Flower: density high (mean 113), arrangement broad distal, size medium (17.75mm), fragrance slight; bud large, red RHS 46A, apical colour (operculum lost) white RHS 155 D; petal outline round, colour white RHS 155 D, colour development slow, mature petal colour red/crimson RHS 59 D; floral tube fluting absent, outline flared, diameter medium (8mm) mid point colour green, end colour green; nectary colour new green RHS 144A, mature greyed/ red with areas of green RHS 178A; staminode outline narrow to medium, collar colour very pale pink; sepal mature calyx lobe colour pale pink; style mature colour pale purple.

Origin Controlled pollination: *Chamelaucium megalopetalum* x *C. uncinatum* 'Purple Pride'. Breeder: Brian Jack, Coorow, WA. Selection criteria: large red buds, large white flowers slowly changing colour to red/crimson RHS 59D, vigorous, dense terminal heads with no 'Tip' grow through. Propagation: vegetative.

Comparative Trial Comparators: *Chamelaucium megalopetalum*, 'Purple Pride'. Location: Coorow, WA, Aug 1993 - Aug 1994. Conditions: planted Aug 1993 in 200 mm pots in local sand, peat moss, perlite mixture with slow release fertilizer, pH 6.5, hot temperature with winter rainfall. Trial design: ten plants in rows. Measurements: made on random samples from all ten plants.

Prior Applications and Sales Nil.

Description: **Brian Jack**, Coorow WA.

Table 68 Chamelaucium varieties

	'Madonna'	*'Purple Pride'	* <i>Chamelaucium megalopetalum</i>
GROWTH VIGOUR	medium	medium	slow
STEM THICKNESS (mm) top 5 branches at 10cm from their base			
mean	4.15	3.55	2.2
Std deviation	0.47	0.62	0.35
LSD/sig.	0.76	ns	P≤0.01
INTERNODE LENGTH (mm) top 5 internodes			
mean	10.5	16.33	9.26
Std deviation	1.70	3.53	3.30
LSD/sig.	1.91	P≤0.01	ns

Table 68 *Chamelaucium* Varieties - continued

BRANCH ANGLES (degrees) top 5 nodes			
mean	45.8	43.44	33.78
Std deviation	7.80	3.53	3.30
LSD/sig.	6.85	ns	P≤0.01
MATURE LEAF SIZE non axillary leaves			
mean	16.7	32.3	10.5
Std deviation	1.63	2.31	9.13
LSD/sig.	8.89	P≤0.01	ns
LEAF TIP	weakly uncinata	strongly uncinata	weakly uncinata
FLOWERING TIME	medium	early	medium
BUD COLOUR (RHS) with operculum			
apical	red 46A white 155D	red 46A pale purple 80A	red 46B white 155B
tube	green 143C	green 146C	green 145A
FLOWER			
arrangement	broad distal	broad distal	narrow distal
fragrance	slight-absent	present	slight-absent
CALYX LOBE COLOUR 21-35 days after anthesis, petals removed	very pale purple	pale pink purple	white
FLORAL TUBE			
fluting	slight/absent	slight/absent	slight/absent
predominant outline	flared	flared	conical
mid point colour	green	red/brown	green
end colour	green	red/brown	green
PETAL			
outline	round	obovate	obovate
colour (RHS):			
immature	white 156D	purple 78A	white 155B
mature	white 59B-D	purple 59C	white 155D
colour	slow	medium	slow
NECTARY COLOUR (RHS No) (from the top with petals removed)			
new	green 154A	greened orange 177D	green 145A
mature	greyed red 178A	greyed purple 187A	green/grey 141B
STAMINODE (21 -35 days after anthesis with petals removed)			
outline	narrow triangular	broad triangular	medium triangular
collar colour	very pale pink	red purple	white
MATURE STYLE COLOUR 21-35 days after anthesis	pale purple	dark red purple	white

'Painted Lady'

Application No: 93/204 Accepted 21 Sep 1994.

Applicant: **Western Flora**, Coorow, WA.

Description (Table 69, Figure 26) Plant: shrub, diploid, mid flowering, vigour medium. Stem: thickness medium (3.50mm), branch angles medium (47.70), internode length medium (14.3mm). Leaf: length medium (16.1mm), thickness medium, weakly uncinata. Flower: density high (mean 36), arrangement broad distal, size medium (diameter 17.8mm), fragrance absent; bud large, red RHS 53A, apical colour (operculum lost) white RHS 155D, suffused purple RHS 77D; petal outline round, colour white RHS 155D, suffused purple RHS 77D, colour development medium, mature petal colour red-purple RHS 72B; floral tube fluting slight, outline conical, diameter medium (3.5mm) mid point colour yellow-green RHS 144C, end colour yellow-green RHS 144C; nectary colour new yellow-green RHS 152C, mature greyed purple-red RHS 183B; mature calyx lobe colour pale pink-purple; staminode outline narrow triangular, mature collar colour pale pink/purple; style mature colour pale purple.

Origin Controlled pollination: *C. megalopetalum* x *C. uncinatum* 'Purple Pride'. Breeder: Brian Jack, Coorow WA. Selection criteria: hardy, vigorous, early flowering, floral characteristics, very long flowering and very long vase life. Propagation: vegetative.

Comparative Trial Comparators: *C. megalopetalum*, *C. uncinatum* 'Purple Pride'. Location: Coorow, WA, Sep 1993 - Sep 1994. Conditions: planted Sep 1993 in 200 mm pots in local sand, peat moss, perlite mixture with slow release fertilizer, pH 6.5. Hot temperature with winter rainfall. Trial design: ten plants in rows. Measurements: made on random samples from all ten plants.

Prior Applications and Sales Nil.

Description: **Brian Jack**, Coorow WA.

Table 69 *Chamelaucium* varieties

	'Painted Lady'	*'Purple Pride'	* <i>Chamelaucium megalopetalum</i>
GROWTH VIGOUR	medium	medium	slow
STEM THICKNESS (mm)			
top 5 branches at 10cm from their base			
mean	3.50	3.55	2.2
std deviation	0.52	0.62	0.34
LSD/sig	0.96	ns	P≤0.01
INTERNODE LENGTH (mm)			
top 5 internodes			
mean	14.32	16.33	9.26
std deviation	3.02	3.53	3.30
LSD/sig	3.56	ns	P≤0.01

Table 69 *Chamelaucium* Varieties - continued

BRANCH ANGLES (degrees) top 5 nodes			
mean	47.8	43.44	33.78
std deviation	3.07	3.53	3.30
LSD/sig	2.94	P≤0.01	P≤0.01
MATURE LEAF SIZE non axillary leaves			
mean	16.1	32.3	10.5
std deviation	2.02	2.31	4.38
LSD/sig	1.30	P≤0.01	P≤0.01
LEAF TIP			
	weakly uncinata	strongly uncinata	weakly uncinata
FLOWERING TIME			
	medium	early	medium
BUD COLOUR (RHS)			
	red	red	red
	53A	46A	46B
apical	white	pale purple	white
	155D	80A	155B
tube	green	green	green
	143B	146C	145A
FLOWER			
arrangement	broad distal	broad distal	narrow distal
fragrance	slight-absent	present	slight-absent
CALYX LOBE COLOUR			
21-35 days after anthesis, petals removed			
	pale purple	pale purple	white
	with red base		
FLORAL TUBE			
fluting	slight/absent	slight/absent	slight/absent
predominant outline	flared	flared	conical
colour:			
mid point	green-yellow	red-brown	green
end colour	green-yellow	red-brown	green
FLORAL TUBE DIAMETER (mm)			
maximum measured distally			
mean	3.5	7	6.8
std deviation	0.53	0.1	0.44
LSD/sig	1.29	P≤0.01	P≤0.01
PETAL			
outline	round	obovate	obovate
colour (RHS):			
immature	suffused white	purple	white
	155C	78A	155C
mature	red/purple tip 72A	purple	white
	mid 77C	59C	155D
	base 61A		
development	medium	medium	slow
NECTARY COLOUR (RHS)			
from top, petals removed			
new	yellow/green	greened	green
	152C	orange	
	177D		145A
mature	greyed purple	greyed purple	green/grey
	183B	187A	141B

Table 69 *Chamelaucium* Varieties - continued

STAMINODE 21-35 days after anthesis, petals removed			
outline	narrow	broad	medium
	triangular	triangular	triangular
collar colour	pale pink/ purple	red purple	white
MATURE STYLE COLOUR 21-35 days after anthesis			
	purple	pale purple with white red base	dark red

'Revelation'

Application No: 92/171 Accepted: 30 Nov 1992.

Applicant: **Western Flora**, Coorow, WA.

Description (Table 70, Figure 25) Plant: shrub, diploid, early flowering, vigour medium. Stem: thickness medium (3.8mm), branch angles medium (38.8°), internode length large (19mm). Leaf: length medium (20mm), thickness medium, weakly uncinat. Flower: density high (mean 119), arrangement broad distal, size medium (diameter 15-16mm), fragrance present; bud large, red RHS 46A, apical colour (operculum lost) white RHS 155D; petal outline round, colour white RHS 155C, colour development fast, mature petal colour violet RHS 84B; floral tube fluting conspicuous, outline flared, diameter medium (6-8mm), midpoint colour green, end colour purple/brown; nectary colour new green RHS 146 D, mature green/grey RHS 197A; staminode outline narrow, collar triangular, very pale pink at maturity; mature calyx lobe pale pink, mature style pale purple.

Origin Controlled pollination: *C. megalopetalum* x *C. uncinatum* 'Purple Pride'. Breeder: Brian Jack, Coorow, WA. Selection criteria: longer stem, floral characteristics, tolerance to cold, lower light intensity. Propagation: vegetative.

Comparative Trial Comparators: *C. megalopetalum*, 'Purple Pride'. Location: Coorow, WA, Oct 1993 - Oct 1994. Conditions: planted Oct 1993 in 200mm pots in local sand, peat moss, perlite mixture with slow release fertilizer, pH 6.5, hot temperature with winter rainfall. Trial design: ten plants in unreplicated pots. Measurements: made on random samples from all ten plants.

Prior Applications and Sales Nil.Description: **Brian Jack**, Coorow, WA.**Table 70 *Chamelaucium* varieties**

	'Revelation'	*'Purple Pride'	*<i>Chamelaucium megalopetalum</i>
GROWTH VIGOUR	medium	medium	slow

Table 70 *Chamelaucium* Varieties - continued

STEM THICKNESS (mm) top 5 branches, 10cm from base-			
mean	3.80	3.55	2.2
std deviation	0.63	0.62	0.34
LSD/sig	0.89	ns	P≤0.01
INTERNODE LENGTH (mm) top 5 internodes			
mean	19.0	16.33	9.26
std deviation	2.26	3.53	3.30
LSD/sig	4.12	ns	P≤0.01
BRANCH ANGLES (degrees) top 5 nodes			
mean	38.75	43.44	33.78
std deviation	3.07	3.53	3.30
LSD/sig	2.94	P≤0.01	P≤0.01
MATURE LEAF SIZE non axillary leaves			
mean	20.4	32.3	10.5
std deviation	2.38	2.31	4.38
LSD/sig	2.60	P≤0.01	P≤0.01
LEAF TIP	weakly uncinate	strongly uncinate	weakly uncinate
FLOWERING TIME			
	early	early	medium
BUD COLOUR (RHS)			
	red	red	red
	46A	46A	46B
apical	white 155D	pale purple 80A	white 155B
tube	green 144A	green 146C	green 145A
FLOWER			
arrangement	broad distal	broad distal	narrow distal
fragrance	present	present	slight-absent
CALYX LOBE COLOUR			
21-35 days after anthesis, petals removed			
	pale purple with a red base	pale purple	white
FLORAL TUBE			
fluting	conspicuous	slight/absent	slight/absent
predominant outline	flared	flared	conical
colour:			
mid point	green	red/brown	green
end	purple brown	red/brown	green
PETAL			
outline	round	obovate	obovate
colour (RHS):			
immature	white 155C	purple 78A	white 155C
mature	violet 84B	purple 59C	white 155D
development	fast	medium	slow
NECTARY COLOUR (RHS) from top, petals removed			
new	green	greened orange	green
	146D	177D	145A

Table 70 *Chamelaucium* Varieties - continued

mature	green/grey	greyed purple	green/grey
	147A	187A	141B
STAMINODE 21-35 days after anthesis, petals removed			
outline	narrow triangular	broad triangular	medium triangular
collar colour	very pale pink/purple	red purple	white
MATURE STYLE COLOUR 21-35 days after anthesis			
	pale purple	dark red purple	white

WHEAT*Triticum aestivum***'Paterson' syn 'B 173'**

Application No: 95/248 Accepted: 6 Nov 1995.

Applicant: **CSIRO Division of Plant Industry**, Canberra, ACT.

Description (Table 71, Figure 51) Plant: dual-purpose winter wheat, habit semi-prostrate, tillering heavy, height medium, flowering late. Leaf: flag leaf auricles hairy, short and wide (161mm x 18mm). Ear: colour white, semi-erect, long (107mm), density medium, spikelets 12 rows, tip-awned and scurred, lower glume long (8.4mm), shoulder narrow to medium, round; beak moderately curved, medium length; internal imprint medium to large; grain red, hard, oval, long (6.7mm), storage proteins are high molecular weight glutenins, composition consistent over two generations and distinct from comparators. Disease resistance: resistant to stem rust (Sr 9g), moderately resistant to leaf rust, good resistance to stripe rust.

Origin Controlled pollination: 'Brock * 2' x 'Hartog' 1984, developed by single seed descent and pedigree breeding through ten generations. Breeder: JL Davidson, CSIRO Division of Plant Industry, ACT. Selection criteria: increased yield, agronomic characteristics, winter growth habit, improved disease resistance and awnlessness. Propagation: seed for two generations.

Comparative Trial Comparators: 'Lawson' ϕ , 'Owlet'. Location: CSIRO, Canberra, ACT, Jun 1995 - Feb 1996. Conditions: plants raised in 15cm pots in compost-based special wheat soil mix in the open until anthesis, then under glass at 20°C /15°C. Trial design: 60 spaced plants arranged in randomised complete block of three replications. Measurements: on all plants.

Prior Applications and Sales Nil.

Description: **P. Anne Gardner**, CSIRO Division of Plant Industry, ACT.

Table 71 *Triticum* varieties

	'Paterson'	*'Lawson' ϕ	**'Owlet'
PLANT GROWTH HABIT			
	semi-prostrate	semi-prostrate	intermediate
PLANT HEIGHT (mm)			
mean	782	829	823
std deviation	47	59	78
LSD/sig	30	P \leq 0.01	P \leq 0.01
FLAG LEAF LENGTH (mm)			
mean	161	188	147
std deviation	25.9	26.1	34.6
LSD/sig	13.8	P \leq 0.01	P \leq 0.01
FLAG LEAF WIDTH (mm)			
mean	18	19	15
std deviation	1.6	3.4	3.4
LSD/sig	1.1	ns	P \leq 0.01
FLAG LEAF LENGTH: WIDTH RATIO			
mean	9.1	10.0	10.0
std deviation	1.1	1.2	2.0
LSD/sig	0.07	P \leq 0.01	P \leq 0.01
PRIMARY EAR LENGTH (mm)			
mean	107.0	92.8	112
std deviation	5.7	10.2	8.9
LSD/sig	4.0	P \leq 0.01	P \leq 0.01
DAYS TO EAR EMERGENCE			
mean	134	139	128
std deviation	2.2	2.1	6.6
LSD/sig	2.0	P \leq 0.01	P \leq 0.01
EAR ATTITUDE			
	semi-erect	erect	erect
AWN LENGTH (mm) from mid 1/3 of ear			
mean	1.52	2.03	1.4
std deviation	0.72	0.92	0.68
LSD/sig	0.37	P \leq 0.01	ns
NUMBER OF ROWS OF SPIKELETS			
mean	12.0	11.0	10.0
std deviation	0.5	0.5	1.3
LSD/sig	0.3	P \leq 0.01	P \leq 0.01
LOWER GLUME LENGTH (mm) from mid 1/3 of ear, including beak			
mean	9.70	9.57	8.3
std deviation	0.45	0.38	0.54
LSD/sig	0.22	ns	P \leq 0.01
LOWER GLUME (from mid 1/3 of ear)			
shoulder:			
width	narrow to medium	very narrow sloping	broad to very broad
shape	rounded	sloping	straight
beak:			
length	medium	medium	very short
shape	moderately curved	slightly curved	straight

Table 71 *Triticum* Varieties - continued

internal imprint	medium to large	medium	large
GRAIN LENGTH (mm) from mid 1/3 of ear			
mean	6.74	6.33	6.3
std deviation	0.39	0.34	0.39
LSD/sig	0.18	P≤0.01	P≤0.01
HIGH-MOLECULAR-WEIGHT GLUTENINS (chromosome 1b)			
	7	6+8	7+8
	4+12	2+12	2+12
STEM RUST RESISTANCE			
race	resistant Sr 9g	none	resistant Sr 26

GRANTS

ALSTROEMERIA *Alstroemeria aurea*

'Aruba'^ϕ

Application No: 94/191 Grantee: **Konst Alstromeria BV.**
Certificate No: 570 Expiry Date: 14 Aug 2015.

'Java'^ϕ

Application No: 94/192 Grantee: **Konst Alstromeria BV.**
Certificate No: 571 Expiry Date: 14 Aug 2015.

APPLE *Malus domestica*

'Galaxy'^ϕ

Application No: 94/033 Grantee: **K W Kiddle.**
Certificate No: 567 Expiry Date: 1 Feb 2014.

'Summertime'^ϕ syn 'AG-E-93'

Application No: 94/087 Grantee: **Henry Edmund Franklin.**
Certificate No: 568 Expiry Date: 6 May 2014.

BRACHYSCOME *Brachyscome hybrid*

'Sunburst'^ϕ

Application No: 93/217 Grantee: **Patricia Valencia Shaw.**
Certificate No: 580 Expiry Date: 7 Oct 2013.

CAMELLIA *Camellia sasanqua*

'Marge Miller'^ϕ

Application No: 95/015 Grantee: **Clement Harold Truran**
Certificate No: 556 Expiry Date: 12 Jun 2016

CANOLA *Brassica napus*

'Oscar'^ϕ syn 'BLN500'^ϕ

Application No: 92/009 Grantee: **New South Wales Agriculture.**
Certificate No: 589 Expiry Date: 4 Mar 2012.

DIGITARIA *Digitaria milanjana*

'Strickland'^ϕ

Application No: 95/136 Grantee: **CSIRO, Division of Tropical Crops and Pastures.**
Certificate No: 607 Expiry Date: 27 Jun 2016.

GAURA *Gaura lindheimeri*

'Corrie's Gold'^ϕ

Application No: 93/211 Grantee: **Beth Chatto.**
Certificate No: 573 Expiry Date: 30 Sep 2013.

'Jo Adela'^ϕ

Application No: 93/210 Grantee: **Beth Chatto.**
Certificate No: 588 Expiry Date: 30 Sep 2013.

IMPATIENS *Impatiens hybrid*

'Celebration Bright Coral'^ϕ

Application No: 94/117 Grantee: **Ball FloraPlant.**
Certificate No: 579 Expiry Date: 16 May 2014.

'Celebration Cherry Star'^ϕ

Application No: 94/115 Grantee: **Ball FloraPlant.**
Certificate No: 578 Expiry Date: 16 May 2014.

'Celebration Hot Pink'^ϕ

Application No: 94/112 Grantee: **Ball FloraPlant.**
Certificate No: 576 Expiry Date: 16 May 2014.

'Celebration Pure White'^ϕ

Application No: 94/113 Grantee: **Ball FloraPlant.**
Certificate No: 577 Expiry Date: 16 May 2014.

'Celebration Salmon'^ϕ

Application No: 94/111 Grantee: **Ball FloraPlant.**
Certificate No: 575 Expiry Date: 16 May 2014.

Impatiens walleriana

'Golden Surprise'^ϕ

Application No: 94/008 Grantee: **Pixie Plants.**
Certificate No: 604 Expiry Date: 31 Jan 2014.

KANGAROO PAW
*Anigozanthos hybrid***'Bush Ember'**[Ⓢ]

Application No: 94/065 Grantee: **Biotech Plants Pty Ltd.**
Certificate No: 586 Expiry Date: 4 Mar 2014.

'Bush Heritage'[Ⓢ]

Application No: 94/063 Grantee: **Biotech Plants Pty Ltd.**
Certificate No: 585 Expiry Date: 4 Mar 2014.

'Bush Ochre'[Ⓢ]

Application No: 94/062 Grantee: **Biotech Plants Pty Ltd.**
Certificate No: 584 Expiry Date: 4 Mar 2014.

'Bush Splendour'[Ⓢ]

Application No: 94/061 Grantee: **Biotech Plants Pty Ltd.**
Certificate No: 583 Expiry Date: 4 Mar 2014.

'Bush Twilight'[Ⓢ]

Application No: 94/066 Grantee: **Biotech Plants Pty Ltd.**
Certificate No: 587 Expiry Date: 4 Mar 2014.

KURA CLOVER
*Trifolium ambiguum***'Endura'**[Ⓢ] syn **'KZ1'**[Ⓢ]

Application No: 95/023 Grantee: **Wrightson Seeds Limited.**
Certificate No: 557 Expiry Date: 12 Jun 2016.

LAVENDER
*Lavendula hybrid***'Henri Dunant'**[Ⓢ]

Application No: 93/174 Grantee: **Australian Red Cross, Victoria.**
Certificate No: 566 Expiry Date: 12 Aug 2013.

MARGUERITE DAISY
*Argyranthemum frutescens***'Sugar Baby'**[Ⓢ]

Application No: 93/141 Grantee: **Protected Plant Promotions Australia Pty Ltd and The University of Sydney, Plant Breeding Institute.**
Certificate No: 559 Expiry Date: 11 June 2013.

'Summer Angel'[Ⓢ]

Application No: 94/100 Grantee: **Protected Plant Promotions Australia Pty Ltd and The University of Sydney, Plant Breeding Institute**
Certificate No: 560 Expiry Date: 6 May 2014

'Summer Pink'[Ⓢ]

Application No: 94/120 Grantee: **Protected Plant Promotions Australia**

Pty Ltd and The University of Sydney, Plant Breeding Institute.

Certificate No: 602 Expiry Date: 23 May 2014.

'Surprise Party'[Ⓢ]

Application No: 94/101 Grantee: **Protected Plant Promotions Australia Pty Ltd and The University of Sydney, Plant Breeding Institute**
Certificate No: 561 Expiry Date: 6 May 2014

OAT
*Avena sativa***'Euro'**[Ⓢ] syn **'ME/45/7'**

Application No: 94/106 Grantee: **Minister for Primary Industries, South Australia.**
Certificate No: 574 Expiry Date: 10 May 2014.

PEACH
*Prunus persica***'June Crest'**[Ⓢ] syn **'10E370'**[Ⓢ]

Application No: 89/030 Grantee: **Zaiger's Inc. Genetics.**
Certificate No: 564 Expiry Date: 29 Jun 2009.

'Tasty Zee'[Ⓢ] syn **'32EA300'**[Ⓢ]

Application No: 89/029 Grantee: **Zaiger's Inc. Genetics.**
Certificate No: 563 Expiry Date: 29 Jun 2009.

'Zee Lady'[Ⓢ] syn **'11GA1033'**[Ⓢ]

Application No: 89/031 Grantee: **Zaiger's Inc. Genetics.**
Certificate No: 590 Expiry Date: 29 Jun 2009.

PEARL MILLET
*Pennisetum glaucum***'Siromill'**[Ⓢ] syn **'CPI 114994A'**[Ⓢ]

Application No: 95/139 Grantee: **CSIRO, Division of Tropical Crops and Pastures.**
Certificate No: 581 Expiry Date: 17 Jun 2016.

ROSE
*Rosa***'Ausbord'**[Ⓢ] syn **'Gertrude Jekyll'**[Ⓢ]

Application No: 91/021 Grantee: **David Austin Roses.**
Certificate No: 565 Expiry Date: 27 Mar 2011.

'Chameleon'[Ⓢ]

Application No: 92/150 Grantee: **Biotech Plants Pty Ltd.**
Certificate No: 582 Expiry Date: 25 Sep 2012.

'Delicious'[Ⓢ] syn **'Weldel'**[Ⓢ]

Application No: 92/017 Grantee: **Eric Welsh Roses.**
Certificate No: 562 Expiry Date: 5 Mar 2012.

'Devilk'[Ⓢ] syn **'Sparkling Orange'**[Ⓢ]

Application No: 93/131 Grantee: **DeVor Nurseries Inc.**
Certificate No: 591 Expiry Date: 31 May 2013.

'Devnovia'^ϕ syn **'Megan'**^ϕ

Application No: 93/133 Grantee: **DeVor Nurseries Inc.**
Certificate No: 593 Expiry Date: 1 Jun 2013.

'Devrise'^ϕ syn **'Cerise Dawn'**^ϕ

Application No: 93/132 Grantee: **DeVor Nurseries Inc.**
Certificate No: 592 Expiry Date: 31 May 2013.

'Devtinta'^ϕ syn **'Obsession'**^ϕ

Application No: 93/134 Grantee: **DeVor Nurseries Inc.**
Certificate No: 594 Expiry Date: 1 Jun 2013.

'Frytranquil'^ϕ syn **'Golden Moments'**^ϕ

Application No: 94/199 Grantee: **Fryers Nurseries Ltd.**
Certificate No: 598 Expiry Date: 12 Oct 2014.

'Frystar'^ϕ syn **'Beauty Star'**^ϕ

Application No: 94/200 Grantee: **Fryers Nurseries Ltd.**
Certificate No: 599 Expiry Date: 28 June 2015.

'Frytrooper'^ϕ syn **'Daily Post'**^ϕ

Application No: 94/201 Grantee: **Fryers Nurseries Ltd.**
Certificate No: 600 Expiry Date: 12 Oct 2014.

'Kooiana Butterscotch'^ϕ syn **'St. Hilda's'**^ϕ

Application No: 95/049 Grantee: **Sunrise Flowers International Ltd.**
Certificate No: 606 Expiry Date: 27 Jun 2016.

'Kooiana Moonlight'^ϕ syn **'Guildfordian'**^ϕ

Application No: 95/047 Grantee: **Sunrise Flowers International Ltd.**
Certificate No: 605 Expiry Date: 27 Jun 2016.

'Kooiana Watermelon'^ϕ

Application No: 95/048 Grantee: **Sunrise Flowers International Ltd.**
Certificate No: 603 Expiry Date: 27 Jun 2016.

'Pink Kardinal'^ϕ

Application No: 94/077 Grantee: **Leslie Stratford.**
Certificate No: 572 Expiry Date: 28 Mar 2014.

'Smooth Melody'^ϕ syn **'Hadmelody'**^ϕ

Application No: 93/264 Grantee: **Western Sun Roses.**
Certificate No: 596 Expiry Date: 10 Dec 2013.

'Smooth Perfume'^ϕ syn **'Hadperfume'**^ϕ

Application No: 93/265 Grantee: **Western Sun Roses.**
Certificate No: 597 Expiry Date: 13 Dec 2013.

'Smooth Prince'^ϕ syn **'Hadprince'**^ϕ

Application No: 93/263 Grantee: **Western Sun Roses.**
Certificate No: 595 Expiry Date: 10 Dec 2013.

'Suntick'^ϕ syn **'Tickled Pink'**^ϕ

Application No: 94/202 Grantee: **Frank Bart Schuurman.**
Certificate No: 601 Expiry Date: 6 Feb 2015.

'Woman's Day'^ϕ syn **'Welira'**^ϕ

Application No: 92/018 Grantee: **Eric Welsh Roses.**
Certificate No: 569 Expiry Date: 02 Jul 2012.

STRAWBERRY*Fragaria x ananassa***'Kabarla'**^ϕ syn **'Redlands Kabarla'**^ϕ

Application No: 95/192 Grantee: **The State of Queensland, Department of Primary Industries.**
Certificate No: 558 Expiry Date: 12 Jun 2016.

APPLICATIONS VARIED

The Lupin variety **'Boongul'** (Application No: 95/289) will be referred to as **'83A:455'** until a decision is made by the applicant about the appropriate naming. The applicant for the Potato variety **'Panda'** (Application No: 91/129) has cancelled their agent authorisation for **CCA Snack Foods Pty Ltd** and authorised **Frito Lay Australia** as their new agent. The name of the Lucerne variety **'Encore'** (Application No: 95/142) has been changed to **'Sequel HR'**. The owner details of *Callistemon* **'Great Balls of Fire'** (Application No: 90/115, Certificate No: 150), *Hardenbergia* **'Purple Falls'** (Application No: 91/055, Certificate No: 278), *Lophostemon* **'Billy Bunter'** (Application No: 93/179) and *Syzygium* **'Undercover'** (Application No: 93/178) are changed from **Rex W. Trimble and Stephen Membrey** to **Rex W. Trimble and Plants Management Australia Pty Ltd** is authorised as agent for these four varieties. The name of the rose variety **'Welgold'**, application number 93/216, has been changed to **'Victoria Gold'**, the owner details have also changed from **Eric Welsh** to the **Rose Society of Victoria Inc.**

APPLICATIONS WITHDRAWN

Aster pringlei x novi-belgii **'Blue Butterfly'** Application No: 89/124.

Aster pringlei x novi-belgii **'Pink Butterfly'** Application No: 89/125.

Aster pringlei x novi-belgii **'Rose Butterfly'** Application No: 89/126.

Aster pringlei x novi-belgii **'White Butterfly'** Application No: 89/127.

Spathiphyllum **'Tamborine Gold'** Application No: 93/085

Impatiens hawkeri **'Yuletide'** Application No: 93/107

Prunus salicina **'Pizazz'** Application No: 95/138.

Ficus benjamina **'Curly'** Application No: 95/144.

GRANTS SURRENDERED

Rosa hybrid 'Meizaipur' syn 'Mischka', Certificate No 38

Rosa hybrid 'Keijourna' syn 'Aurelia', Certificate No: 39.

Avena sativa 'Condamine' syn 'PO 475' Certificate No: 450.

Fragaria x ananassa 'Fern' Certificate No: 245

Fragaria x ananassa 'Santana' Certificate No: 247

CORRIGENDA

In PVJ 9(1), p33 the prior sale of Sutera variety 'Pink Domino' in Europe is given as Jan 1995 when in fact it should be Jan 1996. In the same page the application number for Subterranean Clover variety 'Riverina' should read as 95/151 instead of 95/131.

In PVJ 9(1) the caption for Fig 30 should read as: Eucalypt 'Summer Beauty'(right) with its comparator *Eucalyptus ptychocarpa* (left). In the same issue the caption for Fig 43 should read as: White Clover 'Clever Club'(right) with its comparator 'Haifa'(left).

In PVJ 9(1), p7 the application number for Pumpkin variety 'Loana 52' is given as 95/001 which should be 96/001. In the same page the synonym for Verbena variety 'Suntory VP-10' is given as 'Pink Confusion' when in fact it should be 'Pink Profusion'.

In PVJ 9(1), p36 the application number for the Peach variety 'Melodie' is given as 89/088 when it should be 89/080. In the same page the Certificate Number for Wheat variety 'Pelsart' is given as 524 when in fact it should be 542. In page 37 of the same issue the name of the Rose variety should read as 'Schobitet' instead of 'Shobitet'.

The botanical name for Hardenbergia variety 'Purple Falls' (Application No: 91/055, Certificate No: 278) should read as *Hardenbergia violacea* in PVJ 4(3), p24, PVJ 5(1), p11 and PVJ 6(4)(4), p52.

The denomination of a petunia variety (Application no: 95/013) was given as 'Hush Light' syn 'Hush White' in PVJ 8(2), p5 when it should have been 'Hush White' syn 'Hush Light'.

In PVJ 8(4), p5 the denomination for Apple variety with application number 95/204 should read 'Co-op 23' not 'Coop 23' as indicated.

APPENDIX 1

FEES

Two fee structures exist as a result of the transition from Plant Variety Rights to Plant Breeders Rights.

For new applications (those lodged on or after 11 November 1995) the PBR fees apply. For older applications lodged before 11 November 1994 and not finally disposed of (Granted, Withdrawn, Refused etc.) the PVR fees in force at the time apply.

New applications (lodged on or after 11 November 1994).

PBR Fees	\$
Application	300
Examination - single application	1400
Examination - application based on overseas test data	1400
Examination - multiple applications* (per application)	1200
Certificate of PBR	300
<u>Total Basic Fees</u>	<u>2000</u>

* Applicable when two or more Part 2 Applications are lodged simultaneously and the varieties are of the same genus and the examinations can be completed at one location at the same time.

Annual Fee	300
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Other Fees

Variation to application	100
Copy of an application, an objection or a detailed description	50
Lodging an objection	100
Application for declaration of essential derivation	800
Application for (a) revocation of a PBR	500
(b) revocation of a declaration of essential derivation	500
Compulsory licence	500
Request under subsection 19(11) for exemption from public access - varieties with no direct use as a consumer product	100
Amendment of the Register on notification of assignment	100
Copy of an entry in the Register	50
Annual subscription to Plant Varieties Journal	40
Back issues of Plant Varieties Journal	14
Other work relevant to PBR - per hour or part thereof	75

Old applications (lodged before 10 November 1994).

PVR fees	\$
Application	400
Examination of application	1400
Certificate of PVR	250
Total Basic Fees	2050

Annual Renewal Fee (see note under)

Other Fees

Variation to application	70
Copy of application	70
Lodging an objection	200
Copy of objection	70
Compulsory license	140
Transfer of rights	140
Other work relevant to PVR (per hour)	70

Note: Once an application has been granted rights under PVR it is treated as if those rights had been granted under PBR. Therefore after grant, all PBR fees apply (including the annual fee).

Payment of Fees

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

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

The **application fee** (\$300) must accompany the application at the time of lodgement.

The appropriate **examination fee** must be paid before the expiry of the 12th month from the date of acceptance of the application. The PBR office will routinely invoice the applicant or their agent for the examination fee at the time nominated on the application form. At the end of the 11th month after acceptance of the application, should the examination fee not have been paid, a final invoice (reminder) will be despatched to the applicant.

Consequences of not paying fees when due*Application fee*

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

Examination fee

Non-payment of the examination fee of an application will automatically result, at the end of 12* months from the date of acceptance, in a refusal of the application. The

consequences of refusal are the same as for applications deemed to be inactive (see 'inactive applications' below).

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

* Consideration of a request for an extension of the period of provisional protection from the initial 12 month period may require the prior payment of the examination fee.

Certificate fee

Following the successful completion of the examination, including the public notice period, the applicant will be required and invoiced to pay the certification fee. Payment of the certification fee is a prerequisite to granting PBR and issuing the official certificate by the PBR office. Failure to pay the fee may result in a refusal to grant PBR.

Annual fee

Should an annual renewal fee not be paid within 30 days after the due date, the grant of PBR will be revoked under Section 50 of the PBR Act. To assist grantees, the PBR office will invoice grantees or their Australian agents for renewal fees.

Inactive applications

An application will be deemed inactive if, after 24 months of provisional protection (or 12 months in the case of non-payment of the examination fee) the PBR Office has not received a completed application or has not been advised to proceed with the examination or an extension of provisional protection has not been requested or not granted or a certificate fee has not been paid. Inactive applications will be examined and, should they not fully comply with Section 26 of the PBR Act 1994, they will be refused. As a result provisional protection will lapse, priority claims on that variety will be lost and should the variety have been sold, it will be ineligible for plant variety rights on reapplication. Continued use of labels or any other means to falsely imply that a variety is protected after the application has been refused is an offence under Section 53(1) of the Act.

APPENDIX 2

Plant Breeders Rights Advisory Committee (PBRAC)

(Members of the PBRAC hold office in accordance with Section 85 of the *Plant Breeder's Rights Act 1994*.)

Dr Brian William Hare
Director of Research
Pacific Seeds Pty Ltd
6 Nugent Crescent
TOOWOOMBA QLD 4350
Representing Plant Breeders

Ms Cheryl Ann McCaffery
Intellectual Property Manager
Florigene Pty Ltd
18 Hutchinson Street
EAST BRUNSWICK VIC 3057

Member with appropriate qualifications and experience

Ms Natalie Florence Peate
Nursery Owner
26 Kardinia Crescent
WARRENWOOD VIC 3134

Member with appropriate qualifications and experience

Mr. Hugh Roberts
Farmer
'Birralees'
COOTAMUNDRA NSW 2694
Representing Users

Prof Margaret Sedgley
University of Adelaide
Waite Campus
GLEN OSMOND SA 5064
Representing Plant Breeders

Dr D A I (Dai) Sutter
General Manager
Weston Food Laboratories
1 Braidwood Street
ENFIELD NSW 2136
Representing Consumers

Mr Doug Waterhouse (Chair)
Acting Registrar of Plant Breeders Rights
GPO Box 858
CANBERRA ACT 2601

APPENDIX 3

INDEX OF ACCREDITED CONSULTANT 'QUALIFIED PERSONS'

The following persons have been accredited by the Plant Breeders Rights office based on information provided by these persons. From the information provided by the applicants, the PBR office believes that these people can fulfil the role of 'qualified person' in the application for plant breeder's rights. Neither accreditation nor publication of a name in the list of persons is an implicit recommendation of the person so listed. The PBR office cannot be held liable for damages that may arise from the omission or inclusion of a person's name in the list nor does it assume any responsibility for losses or damages arising from agreements entered into between applicants and any person in the list of accredited persons. Qualified persons charge a fee for services rendered.

A guide to the use of the index of consultants:

locate in the left column of Table 1 the plant group for which you are applying;

listed in the right column are the names of accredited qualified persons from which you can choose a consultant;

in Table 2 find that consultant's name, telephone number and area in which they are willing to consult (they may consult outside the nominated area);

using the "Nomination of Qualified Person" form as a guide, agree provisionally on the scope and terms of the consultancy; complete the form and attach it to Part 1 of the application form;

when you are notified that your nomination of a consultant qualified person is acceptable in the letter of acceptance of your application for PBR you should again consult the qualified person when planning the rest of the application for PBR.

TABLE 1

PLANT GROUP /SPECIES /FAMILY	CONSULTANT'S NAME (TELEPHONE AND AREA IN TABLE 2)
Apple	Baxter, Leslie Jotic, Predo Mackay, Alastair Mitchell, Leslie Robinson, Ben Scholefield, Peter Stearne, Peter Tancred, Stephen Valentine, Bruce
Aquatic	Birkill, Ann-Marie
Anigozanthos	Paananen, Ian Kirby, Greg
Aroid	Clarke, Charles
Azalea	Barrett, Mike Hempel, Maciej Paananen, Ian
Barley (Common)	Morgan, Stuart A Trethowan, Richard
Berry Fruit	Robinson, Ben Scholefield, Peter Wilson, Stephen
Blueberry	Barthold, Graham
Bougainvillea	Iredell, Janet Willa
Brassica	Aberdeen, Ian Cross, Richard Kadkol, Gururaj Robinson, Ben Scholefield, Peter
Bromeliads	Clarke, Charles
Buddleia	Robb, John Paananen, Ian
Camellia	Paananen, Ian Robb, John
Carnivorous Plants	Clarke, Charles
Cereals	Bullen, Kenneth Cook, Bruce Cooper, Kath Cross, Richard Davidson, James Derera, Nicholas AM Hare, Raymond Henry, Robert J Kidd, Charles Law, Mary Ann McDonald, David Mitchell, Leslie Oates, John Poulsen, David Reid, Robert Rees, Robert Rose, John Scattini, Walter John Smart, Geoffrey Stearne, Peter Stuart, Peter Vertigan, Wayne Williams, Warren Wilson, Frances
Cherry	Kennedy, Peter Mackay, Alastair Mitchell, Leslie Robinson, Ben Scholefield, Peter
Chickpeas	Goulden, David Morgan, Stuart A
Citrus	Edwards, Megan Fox, Primrose Lee, Slade McDonald, David Mitchell, Leslie Robinson, Ben Scholefield, Peter Sykes, Stephen
Clover	Miller, Jeff Mitchell, Leslie Nichols, Phillip
Conifer	Stearne, Peter
Cotton	Bullen, Kenneth Derera, Nicholas AM Leske, Richard Thomson, Norman
Cucurbits	Cross, Richard Herrington, Mark Robinson, Ben Scholefield, Peter Sykes, Stephen
Cydonia	Baxter, Leslie
Dogwood	Stearne, Peter
Feijoa	McDonald, David Robinson, Ben Scholefield, Peter
Fig	FitzHenry, Daniel
Forage Brassicas	Goulden, David
Forage Grasses	Berryman, Tim Bray, Robert Kirby, Greg Mitchell, Leslie
Forage Legumes	Miller, Jeff Bray, Robert
Forest Trees	Lubomski, Marek
Fruit	Bath, Geoffrey Beal, Peter Lenoir, Roland Mitchell, Leslie Robinson, Ben Scholefield, Peter
Grapes	Bath, Geoffrey Biggs, Eric Mitchell, Leslie Robinson, Ben Scholefield, Peter Stearne, Peter Sykes, Stephen
Grevillea	Herrington, Mark
Hydrangea	Hanger, Brian
Impatiens	Paananen, Ian
Industrial Crops	Milthorpe, Peter

Jojoba	Dunstone, Bob	Collins, Ian	Pastures & Turf
Legumes	Aberdeen, Ian Bowman, Alison Bray, Robert Cameron, Stephen Cook, Bruce Downes, Ross Hacker, Bryan Imrie, Bruce Kirby, Greg Knights, Edmund Law, Mary Ann Loch, Don McDonald, David Mitchell, Leslie Morgan, Stuart A Reid, Robert Rose, John	Cooling, Beth Cross, Richard Dawson, Iain Derera, Nicholas AM Fisk, Anne Marie Fitzhenry, Daniel Hempel, Maciej Kirkham, Roger Lenoir, Roland Lowe, Greg Lubomski, Marek Lunghusen, Mark Mitchell, Leslie Nichols, David Oates, John Paananen, Ian Richardson, Clive Robb, John Robinson, Ben Scholefield, Peter Singh, Deo Stearne, Peter Stewart, Angus Strange, Pamela Watkins, Phillip Van der Ley, John	Aberdeen, Ian Avery, Angela Berryman, Tim Bowman, Alison Cameron, Stephen Cook, Bruce Cunningham, Peter Downes, Ross Harrison, Peter Hacker, Bryan Kaapro, Jyri Kirby, Greg Lee, Choo Kiang Loch, Don Miller, Jeff Mitchell, Leslie Rose, John Smith, Raymond Scattini, Walter John Williams, Warren Wilson, Frances
Lentils	Goulden, David	Ornamentals - Indigenous	Pear
Lucerne	Mitchell, Leslie Bray, Robert Nichols, Phillip	Allen, Paul Barrett, Mike Beal, Peter Bound, Sally Anne Collins, Ian Cooling, Beth Dawson, Iain Derera, Nicholas AM Downes, Ross Henry, Robert J Hockings, David Jack, Brian Jusaitis, Manfred Kirby, Greg Kirkham, Roger Lenoir, Roland Lowe, Greg Lunghusen, Mark Milthorpe, Peter Molyneux, W M Nichols, David Oates, John Robinson, Ben Scholefield, Peter Singh, Deo Stearne, Peter Strange, Pamela Tan, Beng Watkins, Phillip Worrall, Ross	Baxter, Leslie Mackay, Alastair Robinson, Ben Scholefield, Peter Tancred, Stephen Valentine, Bruce
Magnolia	Paananen, Ian	Petunia	Paananen, Ian Nichols, David
Myrtaceae	Dunstone, Bob Reid, Robert	Photinia	Robb, John
Native grasses	Waters, Cathy	Pistacia	Richardson, Clive Sykes, Stephen
Neem	Friend, Joe	Pisum	Goulden, David Morgan, Stuart A
Oat	Morgan, Stuart A Trethowan, Richard	Potatoes	Cross, Richard Fennell, John Kirkham, Roger Robinson, Ben Scholefield, Peter Strange, Pamela Stearne, Peter
Oilseed crops	Downes, Ross Kidd, Charles Poulsen, David	Proteaceae	Alexander, Susan Kirby, Neil Reid, Robert Robb, John Robinson, Ben Scholefield, Peter
Onions	Cross, Richard Fennell, John Robinson, Ben Scholefield, Peter Strange, Pamela	Ornithopus	Nichols, Phillip
Orchids	Clarke, Charles	Osmanthus	Paananen, Ian Robb, John
Ornamentals - Exotic	Armitage, Paul Bath, Geoffrey Birkill, Ann-Marie Cameron, Stephen		

Pulse Crops	Bullen, Kenneth Cross, Richard Kidd, Charles Oates, John
Prunus	Mackay, Alastair Topp, Bruce
Raspberry	Barthold, Graham Martin, Stephen Robinson, Ben Scholefield, Peter
Rhododendron	Barrett, Mike Paananen, Ian
Roses	Barrett, Mike Cross, Richard Fitzhenry, Daniel Fox, Primrose Hanger, Brian Lee, Peter McDonald, David Robinson, Ben Scholefield, Peter Stearne, Peter Strange, Pamela Swane, Geoff Syrus, A Kim Van der Ley, John
Rye (Common)	Trethowan, Richard
Sesame	Imrie, Bruce
Soybean	Andrews, Judith
Stone Fruit	Barrett, Mike Boucher, Wayne Mackay, Alistair Robinson, Ben Scholefield, Peter Valentine, Bruce
Strawberry	Barthold, Graham Herrington, Mark Martin, Stephen Mitchell, Leslie Morrison, Bruce Robinson, Ben Scholefield, Peter Strange, Pamela Wilson, Stephen Zorin, Clara

Tomato	Cross, Richard Gopal, Ram Herrington, Mark Martin, Stephen Robinson, Ben Scholefield, Peter Strange, Pamela
Triticale (x Triticosecale Wittmack)	Trethowan, Richard
Tropical/Sub-Tropical Crops	Bullen, Kenneth Kulkarni, Vinod Robinson, Ben Scholefield, Peter
Umbrella Tree	Paananen, Ian
Vegetables	Bath, Geoffrey Beal, Peter Cross, Richard Derera, Nicholas AM Frkovic, Edward Gopal, Ram Kirkham, Roger Lenoir, Roland Oates, John Pearson, Craig Robinson, Ben Scholefield, Peter Scott, Peter Strange, Pamela Van Holthe, Jan Westra
Verbena	Paananen, Ian
Wheat (Aestivum & Durum Groups)	Trethowan, Richard

TABLE 2

NAME	TELEPHONE	AREA OF OPERATION
• = Fax number		
•• = Phone and Fax number		
Aberdeen, Ian	057-82 1029	SE Australia
Alexander, Susan	002-784 333	Tasmania

Allen, Paul	07-3824 0263	SE QLD, Northern NSW	Lee, Slade	071-556 244	Queensland/Northern New South Wales
Andrews, Judith	069-530 214 069-530 268 •	Southern NSW, Northern VIC	Leske, Richard	076-713136	Cotton growing regions of QLD & NSW
Armitage, Paul	03-9735 1362	Victoria	Loch, Don	074-821522	Queensland
Avery, Angela	060-262205	South Eastern Australia	Lowe, Greg	043-844 128 ••	Sydney, Central Coast NSW
Barthold, Graham	059-97 1413	Southern Victoria	Lubomski, Marek	07-55253 023 ••	NSW & QLD
Barrett, Mike	02-875 3087	NSW/ACT	Lunghusen, Mark	03-97231751	Melbourne & environs
Bath, Geoffrey	057-625520	VIC, Southern NSW, TAS	Mackay, Alastair	097-711 299	Western Australia
Baxter, Leslie	002-336 609	Tasmania		097-712 544 •	
Beal, Peter	07-328 61488	QLD & Northern NSW	Martin, Stephen	002-784 307	Tasmania
Berryman, Tim	045 775 172	Sydney & Environs	McDonald, David	088-327 911	
Biggs, Eric	050-23 2400 ••	Mildura Area		083-630 610 •	Victoria/NSW/SA/QLD
Birkill, Ann-Marie	07-3374 1839	Australia	Miller, Jeff	64-6-358-6019	Manawatu region, New Zealand
Boucher, Wayne	002-664 305	Tasmania		extn 8106	Condobolin district, New South Wales
Bound, Sally Anne	002-784 357	Tasmania	Milthorpe, Peter	068-952 099	
Bowman, Alison	068-887 404	North/Western NSW & QLD			
Bray, Robert	07-3378 3158	QLD & Northern NSW	Mitchell, Leslie	058-212 021	
Bullen, Ken	063-62 4539	QLD/NSW/VIC		058 311 592 •	VIC, Southern NSW
Cameron, Stephen	003-036 5422	Tasmania	Molyneux, William	03-9728 1222	Victoria
Clarke, Charles	077-81 5727	North Queensland	Morgan, Stuart A	09-3683500	
Collins, Ian	045-666 177	Sydney		09-4742840	South West Division, WA
Cook, Bruce	074-82 1522	Queensland	Morrison, Bruce	03-9210 9251	East of Melbourne
Cooling, Beth	075-5332277(w) 075-332 277(a/h)	Gilston, Queensland	Nichols, David	059-77 4755	SE Melbourne, Mornington Peninsula and Dandenong Ranges, Victoria
Cooper, Katharine	08-372 2280	Australia			Western Australia
Cross, Richard	64-3-325 6400 64 3 325 2074•	New Zealand	Nichols, Phillip	09-368 3229	Sydney region, Eastern Australia
Cunningham, Peter	055-730900	Temperate regions of Australia	Oates, John	046-51 2601	Sydney/Newcastle SE QLD, Northern NSW
Davidson, James	06-246 5071	High rainfall zone of temperate Australia	Paananen, Ian	043-62 2418	Australia
Dawson, Iain	06- 251 2293	ACT, South East NSW	Poulsen, David	076-61 2944	
Derera, Nicholas AM	02-639 3072	Australia	Reid, Robert	003-36 5449	
Downes, Ross	06-255 1461••	ACT, South East Australia	Richardson, Clive	051 55 0255	NSW and VIC
Dunstone, Bob	06-281 1754	South East NSW		051 43 2168	
Edwards, Megan	050-245603	VIC/NSW	Robb, John	043-76 1330	Sydney, Central Coast NSW
Fennell, John	004-217 633	Tasmania		043-76 1271 •	SE Australia
FitzHenry, Daniel	048-622 487	Sydney and surrounding districts	Robinson, Ben	08-373 2488	SE Queensland
Fox, Primrose	02-629 2245	Sydney	Rose, John	076-61 2944	
Friend, Joe	066-886150	Northern QLD & NSW	Scattini, Walter John	07-3356 0863/356 0371	Tropical and sub-tropical Australia
Frkovic, Edward	069-62 7333	Australia		07-3356 0863 •	SE Australia
Gopal, Ram	03-9810 8800	Victoria	Scholefield, Peter	08 373 2488	Sydney region
Goulden, David	64-3-325 6400 64-3-325 2074 •	New Zealand	Scott, Peter	06-653 1362	
Hacker, Bryan	07-377 0210	South QLD, Northern NSW	Singh, Deo	018-880 787	Brisbane
Hanger, Brian	03-9756 7532	Victoria		07-3207 5998 •	New South Wales
Hare, Ray	067-631 232	QLD, NSW VIC & SA	Smart, Geoffrey	046 512 600	SE Australia
Harrison, Peter	08 8948 1894	Casuarina, NT and NW of WA	Smith, Stuart	003-36 5234	Sydney, ACT & NSW
Hempel, Maciej	046-28 0376	NSW, QLD, VIC, SA	Stearne, Peter	02-262 2611	Sydney, Gosford
Henry, Robert J	07-3870 9007	SE Queensland	Stewart, Angus	043-253 944	South Australia
Herrington, Mark	074-412211	Southern Queensland	Strange, Pamela	08-373 2488	SE Queensland
Hockings, Francis David	074-943385	Southern Queensland	Stuart, Peter	076-902 666	Central western NSW
Imrie, Bruce	07-3377 0238	SE Queensland	Swane, Geoff	068-89 1545	Adelaide
Iredell, Janet Willa	07-32026351 ••	SE Queensland	Syrus, A Kim	085-56 2555	Perth & environs
Jack, Brian	099-525 040	South West WA	Tan, Beng	09-351 7168	QLD, NSW
Jotic, Predo	002-664305	Tasmania	Tancred, Stephen	076-81 1255	NSW, QLD
Jusaitis, Manfred	08-336 3755	South Australia	Thomson, Norman	067-93 1105	SE QLD, Northern NSW
Kadkol, Gururaj	053-82 1269	North Western Victoria	Topp, Bruce	076 811 255	Victoria
Kaapro, Jyri	02-736 1233 02-743 6348 •	Sydney and surrounding areas	Trethowan, Richard	053-622 111	New South Wales
Kennedy, Peter	063-82 1077	Australia	Valentine, Bruce	063 61 3919	Australia
Kidd, Charles	08 8842 3591 08 8842 3066 •	Southern Australia	Van Holthe Jan Westra	03-9706 3033	Tasmania
Kirby, Greg	08-201 2176	South Australia	Vertigan, Wayne	003-36 5221	Perth Region
Kirby, Neil	047-542 637	New South Wales	Watkins, Phillip	09-525 1800	NSW
Kirkham, Roger	059-571 200	Victoria	Waters, Cathy	068-476373••	New Zealand
Knights, Edmund	067-631 100	North Western NSW	Williams, Warren	64-6-356 8019	Canterbury, New Zealand
Kulkarni, Vinod	089 922 221	Australia	Wilson, Frances	64-3-318 8514	VIC, Murray Region of NSW
Law, Mary Ann	076-38 4322	Toowoomba region	Wilson, Robert	054-496 244	SE Australia
Lenoir, Roland	06-231 9063	Australia	Wilson, Stephen	002-784 364	Australia
Lee, Choo Kiang	055-730900	South East Victoria	Worrall, Ross	043-280 300	
Lee, Peter	003-301147	SE Australia	Van Der Ley, John	065-615047 065 615138 •	Sydney to Brisbane and New England area
			Zorin, Clara	07-3207 4306	Eastern Australia

APPENDIX 4

How can I Propose a Name or a Synonym for My New Plant Variety ?

Under the *Plant Breeder's Rights Act 1994*, both the name and synonym of a plant variety are protected. A synonym is an additional name which the applicant may also use to commercialise the variety in Australia. However, acceptable variety name and synonym must comply with section 27 of the Act and the *International Code of Nomenclature for Cultivated Plants 1995* (ICNCP 1995). For the purpose of this article a reference to a name is also a reference to a synonym.

Proposing a new and original name for a plant variety is not an easy task. It requires a bit of thought and accordingly breeders are frustrated when they can not get the name they want. Here are some simple rules which will help you:

Novelty : Before coining a name for a variety, make sure your proposed name is unique and it cannot be confused either in spelling or pronunciation with another existing one. (ICNCP 1995)

Length : The name should not have more than 10 syllables and no more than 30 characters, excluding spaces and single quotation marks. (ICNCP 1995)

Merit: The name "could not be interpreted, as being likely to exaggerate the merits of the cultivar" (like 'Best Ever', 'The Greatest', 'Tastiest of All'); also it should "not only be made up of simple descriptive words" (eg 'Red', 'Giant White', 'Small'). (ICNCP 1995)

Punctuation: Do not use any punctuation marks except for an apostrophe, comma, a single exclamation mark, hyphen or full-stop. (ICNCP 1995)

Banned Words : Certain words (or their equivalents in any language) are banned words and they can not be used in the name. These are: "cross", "hybrid", "grex", "group", "form", "maintenance", "mutant", "seedling", "selection", "sport", "strain", "variety" (or the plural form of these words in any language) or the words "improved" or "transformed". (ICNCP 1995)

Genus and common name : If your name "is a single word, make sure that the word is not the same as that of a genus, whether in botanical Latin or in a modern language. Erica, Daphne, Iris and Veronica happen to be Latin names of genera and are not permitted as cultivar names even though they are personal names as well." Similarly, Rose and Violet are common names of the genera and they too are not permitted. However, such a word may be used in an name of two or more words provided that it does not form the final word ('Erica Smith', 'Iris

Jones' and 'Rose Queen' are acceptable but 'Queen Rose' is not acceptable). (ICNCP 1995)

Also make sure that your name "does not contain the botanical or common name of its genus or the common name of any species in that genus. (*Rosa* 'Christmas Rose', Potato 'Jim's Spud' and *Primula* 'White Cowslip' are not acceptable.)" (ICNCP 1995)

Name of natural person or organisation : When the name consists of a name of a natural person living at the time of the application a written consent to the name of the variety will be required from that person. If that person is deceased within 10 years before the application was lodged then a written consent will be required from the legal representative of that person. If the name consists of a name of a corporation or other organisation, then a written consent will be required from that organisation.

UPOV name : If previously filed overseas, the denomination used in the first filing in a UPOV member country should be the official registered name in Australia (if not already in common use in Australia). This requirement ensures that the variety is known by the same name worldwide. If the UPOV name is in common use in Australia for another plant variety then you have to propose an alternative name. If you intend to market the variety under another commercial name, a name that is not the UPOV name, include that name in the synonym.

If you have any confusion about a proposed variety name you are advised to contact the PBR office to check for the acceptability of the name before lodging an application. Examiners in the PBR office will assist you in this regard. You are strongly advised to wait until your proposed name has been accepted by this office before having pot/bag labels and promotional materials printed. You are also suggested to complete a form DEN 1 (Proposed Variety Names) with the Part 1 application to avoid processing delays relating to variety names and synonyms. If you are unsure of naming the variety at the time of the application, you can provide a temporary code name. You may change the code name at any time before the final granting of PBR by proposing a new acceptable name and paying a \$100.00 variation in the application fee.

APPENDIX 5

How to Calculate Least Significant Difference (LSD)

LSD's are the most commonly used mean separation method for comparative tables of varietal descriptions in the *Plant Varieties Journal*. In this issue we will discuss the steps for calculating LSD in detail, with worked examples. We will also publish information about other mean separation procedures in future issues of the journal.

What are LSD's?

LSD's (Least Significant Difference) allow data to be eyeballed, without formal training in statistics. An LSD is a simple calculation that allows the means of two or more pre-determined varieties to be compared. At a glance, the probability that the difference between the means is the result of distinctness of a character, or chance, can be evaluated and confidence is gained that the inference(s) drawn from the data are correct.

LSD's are basically an extension of the Student's *t* test. They provide a more comprehensive estimate of the 'noise' or error in the data for making statistically valid mean comparisons. The level of noise in the data is indicated by the pooled error variance or the square of the more commonly calculated 'mean square of the error' or Error Mean Square.

The difference between two means is declared significant at any desired level of significance if it exceeds the value derived from the general formula:

$$\text{LSD} = \frac{t(s\sqrt{2})}{\sqrt{n}}$$

For PBR, LSD's are very useful in determining the distinctness of a candidate variety from successive comparator varieties considering two varieties (candidate and one of the comparators) at a time.

When the difference between two varietal means for a particular character is greater than the LSD value at a particular level of statistical probability (e.g. $P \leq 0.01$ - means with 99% accuracy) the two varieties are said to be statistically distinct for that trait at that or lesser levels of probability.

Limitations to using LSD's

Although there are some restrictions on the use of LSD's, they are widely accepted when the following precautions and recommendations are considered:

LSD's must not be applied unless the F-test (or *t* test) indicates that significant differences between means are present.

LSD's are only valid for testing mean comparisons that were pre-determined in the objective of the experiment.

An LSD is reasonably satisfactory for comparing each variety individually (when drawn from a set of varieties) with a standard control. For PBR the candidate variety would be considered the control. It is not legitimate to use the LSD when one or more candidates need to be simultaneously compared with multiple comparators.

In its *strictest* sense, LSD's are at their most robust if, when more than two varieties are involved, the LSD is used to compare adjacent variety means when variety means are arranged in order of magnitude.

Box 1:**Calculating LSD's at $P \leq 0.01$ for the *Plant Varieties Journal* (Non Replicated Trials)**

There are many ways to calculate LSD's depending on the test situation. For a non-replicated trial four different cases are discussed below for calculating LSD's. All these methods are basically extensions of Student's t test.

Finding the right value of t for LSD calculations

The t tables found in many statistical texts are often reprinted from Fisher and Yates *Statistical Tables for Biological, Agricultural and Medical Research*. Most are 'two tailed' tables. This allows the difference between means to be tested regardless of direction (i.e. is mean A different from mean B regardless of whether mean A is greater than or less than mean B).

However PBR requires that the direction of the difference between the means be nominated (e.g. mean A greater than mean B). This restricts the t test to a 'one tailed' test and changes the way that the correct t value is found from most tables.

For the *Plant Varieties Journal* it is essential to calculate LSD's at 1% ($P \leq 0.01$) level of significance. Anything beyond this level (e.g. 5% - $P \leq 0.05$) is considered as non significant for PBR purposes.

To use the required probability (e.g. $P \leq 0.01$) for a one tailed test on a two tailed table, the following calculation is performed:

$$\begin{aligned} \text{Required column} &= \text{required P value} \times 2 \\ &= 0.01 \times 2 \\ &= 0.02 \end{aligned}$$

Calculation of the degrees of freedom (d.f. or ν) is discussed individually in each of the four cases below.

Using the Student's t table, the t value is found by reading across the row from the calculated degrees of freedom and down the column from the nominated probability. The t value used in the LSD calculation is that number where the row and column meet.

Testing of equality of variances

The following procedure can be used to test the equality of variances of the candidate and the comparator to ascertain which of the four alternatives discussed below should be used:

Calculate

$$F = \frac{\text{larger value } s^2}{\text{smaller value } s^2}$$

and compare this value with the tabulated F value (refer to an F table in a statistical table) at $P \leq 0.01$ reading degrees of freedom ($n_1 - 1$) horizontally, degrees of freedom ($n_2 - 1$) vertically.

where,

s^2 = square of the respective sample standard deviation (σ_{n-1} in your calculator) which is the sample variance

$(n_1 - 1)$ = degrees of freedom for the numerator s^2

$(n_2 - 1)$ = degrees of freedom for the denominator s^2

If, the calculated F value is more than the tabulated F value, the variances are unequal. Use either Case 3 or Case 4. If the calculated F value is less than the tabulated F value, use either Case 1 or Case 2 depending on the equality/nonequality of sample sizes.

Calculating LSD

Case 1: Comparison of means of a candidate and a comparator for a character with **unequal number of observations and assuming equal variances**

When $n_1 \neq n_2$ (i.e. the sample numbers of candidate and comparator are not same) calculate s_d (pooled standard deviation of the difference between the means) using the following formula:

$$s_d = \sqrt{s^2 (1/n_1 + 1/n_2)}$$

$$\text{where } s^2 = \frac{(n_1 - 1)s_1^2 + (n_2 - 1)s_2^2}{(n_1 - 1) + (n_2 - 1)}$$

$$\text{LSD} = t_{0.01} \times s_d$$

in which

- n_1 = number of observations for the candidate variety
- n_2 = number of observations for the comparator variety
- s_1 = sample standard deviation for the candidate variety (calculate $n-1$ in the statistical mode if you are using a calculator)
- s_2 = sample standard deviation for the comparator variety
- LSD = Least Significant Difference between the means at the required level of probability (e.g. $P \leq 0.01$)
- $t_{0.01}$ = tabulated t value (one tailed) at probability level $P \leq 0.01$
- d.f. = $(n_1 + n_2 - 2)$

Case 2: Comparison of means of a candidate and a comparator for a character with equal number of observations and assuming equal variances

When $n_1 = n_2 = n$ (i.e. the sample numbers of the candidate and the comparator are the same) calculate s_d using the following formula:

$$s_d = \sqrt{2s^2 / n}$$

$$\text{LSD} = t_{0.01} \times s_d$$

in which,

- LSD = Least Significant Difference between the means at the required level of probability (e.g. $P \leq 0.01$)
- $t_{0.01}$ = tabulated t value (one tailed) at probability level $P \leq 0.01$
- d.f. = $2(n-1)$

Case 3: Comparison of means of a candidate and a comparator for a character with unequal number of observations and assuming unequal variances

When $n_1 \neq n_2$ (i.e. the sample numbers of the candidate and the comparator are not same) calculate s_d and t' using the following formulas:

$$s_d = \sqrt{(s_1^2 / n_1) + (s_2^2 / n_2)}$$

$$t' = \frac{w_1 t_1 + w_2 t_2}{w_1 + w_2}$$

where,

$$w_1 = s_1^2 / t_1$$

$$w_2 = s_2^2 / t_2$$

$$\text{LSD} = t' \times s_d$$

in which

t_1 = Student's t value for $(n_1 - 1)$ degrees of freedom at $P \leq 0.01$ (refer to Student's t table)

t_2 = Student's t value for $(n_2 - 1)$ degrees of freedom at $P \leq 0.01$ (refer to Student's t table)

Case 4: Comparison of means of a candidate and a comparator for a character with equal number of observations and assuming unequal variances

When $n_1 = n_2 = n$ (i.e. the sample numbers of the candidate and the comparator are the same), the t' value is the tabular t for $(n-1)$ degrees of freedom.

$$\text{LSD} = t' \times s_d$$

Determining significance

The difference between two mean values is compared to the LSD value. If the difference is *greater* than the LSD value, the means are significantly different.

If you are using a complete package of Excel version 5.0, to perform **t-tests**

1. pull down the **tools** menu
2. click on **data analysis**
3. chose either
 - i **t-test: Two-sample Assuming Equal Variances** or,
 - ii **t-test: Two-sample Assuming Unequal Variances**
as the case may be.
4. Calculate LSD using the variances (one-tailed) from the results and appropriate formula from any of the above four cases.

Box 2**Calculating LSD's at P≤0.01 for Plant Varieties Journal (Replicated Trials)**

For calculating LSD's at P≤0.01 for a replicated trial a fair amount of calculation is needed. Two worked examples are given below, the first with equal number of replicates and second with unequal number of replicates:

Example 1: Calculation of LSD using a replicated trial with equal number of replicates:

We want to compare the mean leaf width of a new variety (A) with two comparators (B & C). The trial consists of 4 replications (replicates) arranged in a randomised complete block (RCB) design. This example assumes that there are no data missing.

The data is presented as:

	leaf width (mm)			
	Replicates			
	1	2	3	4
Variety A	17	15	10	14
Variety B	34	26	23	22
Variety C	23	21	8	16

First calculate the variety totals and means. Then calculate the replicate totals.

	1	2	3	4	Variety totals	Variety means
Variety A	17	15	10	14	56	14
Variety B	34	26	23	22	105	26.25
Variety C	23	21	8	16	68	17
Replicate	74	62	41	52	229	Grand total
Totals						

The total number of observations is 3 varieties × 4 replicates = 12

As indicated, the LSD formula is derived from the Student's *t* test. There are many different representations of the formula, however the one presented below seems to be the most widely used.

$$t = \frac{\bar{x}_1 - \bar{x}_2}{s\sqrt{2}/\sqrt{n}} \quad \text{which can be written as} \quad \bar{x}_1 - \bar{x}_2 = \frac{t(s\sqrt{2})}{\sqrt{n}}$$

$$\text{LSD} = \frac{t(s\sqrt{2})}{\sqrt{n}}$$

hence,
where

t = tabulated *t* value at probability level (e.g. P≤0.01)

d.f. = (number of varieties minus 1) × (number of measurements for each variety minus 1)

\bar{x}_1

= mean of variety 1

\bar{x}_2

= mean of variety 2

s = standard deviation of all the plots. This is *NOT* the standard deviation of the varieties. It is

the $\sqrt{\text{mean square of the error}}$.

n = number of measurements (observations) in each variety, usually equal to the number of replicates (in this example *n* = 4).

However, before the LSD can be calculated, a number of other calculations aimed at estimating the mean square of the error (MSE) must be performed. To be consistent with most statistical texts, varieties will be referred to as treatments and replicates as blocks.

Most modern spreadsheet packages have two way analysis of variance¹ (ANOVA) functions that calculate the MSE. For completeness, the long hand calculations are set out below.

$$\text{MSE} = \frac{\text{SSE}}{(\text{blocks}-1)(\text{treatments}-1)}$$

where $\text{SSE} = \text{Total SS} - \text{SSB} - \text{SST}$

$$\text{Total SS} = (\text{sum of squares of all data values}) - \frac{(\text{grand total})^2}{\text{total number of observations}}$$

$$= (17)^2 + (15)^2 + \dots + (16)^2 - (229)^2/12$$

$$= 574.917$$

$$\text{SSB} = \frac{(\text{sum of squares of block totals})}{\text{number of observations in a single block total}} - \frac{(\text{grand total})^2}{\text{total number of observations}}$$

$$= \frac{(74)^2 + (62)^2 + (41)^2 + (52)^2}{3} - \frac{(229)^2}{12}$$

$$= 198.250$$

$$\text{SST} = \frac{(\text{sum of squares of treatment totals})}{\text{number of observations in a single treatment total}} - \frac{(\text{grand total})^2}{\text{total number of observations}}$$

$$= \frac{(56)^2 + (105)^2 + (68)^2}{4} - \frac{(229)^2}{12}$$

$$= 326.167$$

$$\text{MST} = \frac{\text{SST}}{(v-1)}$$

$$= 326.167/2$$

$$= 163.08$$

$$\text{SSE} = \text{Total SS} - \text{SSB} - \text{SST}$$

$$= 574.917 - 198.250 - 326.167$$

$$= 50.5$$

thus,

$$\text{MSE} = \frac{50.5}{(4-1)(3-1)}$$

$$= 8.417$$

$$\text{F ratio} = \frac{\text{MST}}{\text{MSE}}$$

$$= 163.08/8.417$$

$$= 19.37$$

Compare this value with the tabulated F value at $P \leq 0.01$ reading degrees of freedom (v - 1) horizontally, degrees of freedom (b-1)(v-1) vertically i.e. at 2, 6 d.f. ($P \leq 0.01$) = **10.92**

The calculated F value 19.37 is **greater than** the tabulated F value 10.92. This reveals that there are significant differences among the three varieties i.e. at least one variety is different from any of others. The next step is to calculate the LSD.

Standard deviation per plot = $\sqrt{\text{MSE}} = 2.901$

$t = 3.143$ (from Student's t tables @ 6 d.f. and P (or) 0.01)

$s = \sqrt{\text{MSE}} = 2.901$ (from the calculation shown above)

$n = 4$

$$\text{LSD} = \frac{t(s\sqrt{2})}{\sqrt{n}}$$

and in this example, $\text{LSD}(P \leq 0.01) = 6.447$

Determining if the two varietal means are significantly different

The difference between two mean values is compared to the LSD value. If the difference is *greater* than the LSD value, the means are significantly different. The variety means for the above example are A (candidate) = 14, B (comparator 1) = 26.25, C (comparator 2) = 17.

The absolute difference between A and B is **12.25** which is greater than 6.447. Therefore A and B are **significantly different** at $P \leq 0.01$. This **confirms** the results of F test.

The difference between A and C is **3** which is less than 6.447. Therefore A and C are **not significantly different** at $P \leq 0.01$.

Box 3

Example 2 : Calculation of LSD using a replicated trial with **unequal number of replicates:**

	leaf width (mm)			
	Replicates			
	1	2	3	4
Variety A	17	15		
Variety B	34	26	23	22
Variety C	23	21	8	

First calculate the variety totals and means. Then calculate the grand total.

	1	2	3	4	Variety totals	Variety means
Variety A	17	15			32	16
Variety B	34	26	23	22	105	26.25
Variety C	23	21	8		52	17.33

189 Grand total

The total number of observations is 2 + 4 + 3 = 9

Total sums of squares (TSS)

$$= (17)^2 + (15)^2 + \dots + (8)^2 - (189)^2/9$$

$$= 4393 - 3969 = \mathbf{424}$$

Variety sums of squares (VSS)

$$= (32)^2/2 + (105)^2/4 + (52)^2/3 - (189)^2/9$$

$$= 1024/2 + 11025/4 + 2704/3 - 33721/9$$

$$= 512 + 2756.25 + 901.33 - 3969$$

$$= 4169.58 - 3969 = \mathbf{200.58}$$

Error Sums of squares (SSE) = TSS - VSS

$$= 424 - 200.58 = \mathbf{223.42}$$

$$MSV = \frac{VSS}{\text{variety df}} \text{ or } \frac{VSS}{(v - 1)}$$

$$= 200.58/2$$

$$= \mathbf{100.29}$$

$$MSE = \frac{SSE}{\text{error df}} \text{ or } \frac{SSE}{(t - 1) - (v - 1)}$$

$$= 223.42 / (8 - 2)$$

$$= \mathbf{37.23}$$

$$F \text{ ratio} = \frac{MSV}{MSE}$$

$$= 100.29/37.23$$

$$= \mathbf{2.69}$$

Compare this value with the tabulated F value at $P \leq 0.01$ reading degrees of freedom (v - 1) horizontally, degrees of freedom (b-1)(v-1) vertically i.e. at 2, 6 d.f. ($P \leq 0.01$) = **10.92**

The calculated F value 2.69 is **less** than the tabulated F value 10.92. This reveals that there are no statistically significant differences among the varieties. Hence there is no need to calculate LSD.

However to demonstrate how to calculate LSD in this case, the following procedure is shown:

$$\text{Standard deviation of varietal difference } S_{d(ij)} = \sqrt{\text{MSE} (1 / r_i + 1 / r_j)}$$

where

r_i = number of replications for the first variety (e.g. the candidate)

r_j = number of replications for the second variety (e.g. one of the comparators)

$$\text{LSD}_{(ij)} = S_{d(ij)} \times t_{(\text{error df})(p=0.01)}$$

Determining if the two varietal means are significantly different

The difference between two mean values is compared to the LSD value. If the difference is *greater* than the LSD value, the means are significantly different. The variety means for the above example are A (candidate) =16, B (comparator 1) =26.25, C (comparator 2) =17.33

LSD for comparison of varietal means of A and B in the above table

$$\begin{aligned} &= \sqrt{37.23(1/2 + 1/4)} \times 3.143 \\ &= 5.28 \times 3.143 \\ &= 16.61 \end{aligned}$$

The absolute difference between A and B is **10.25** which is smaller than 16.61. Therefore A and B are not significantly different at $P \leq 0.01$.

LSD for comparison of varietal means of A and C in the above table

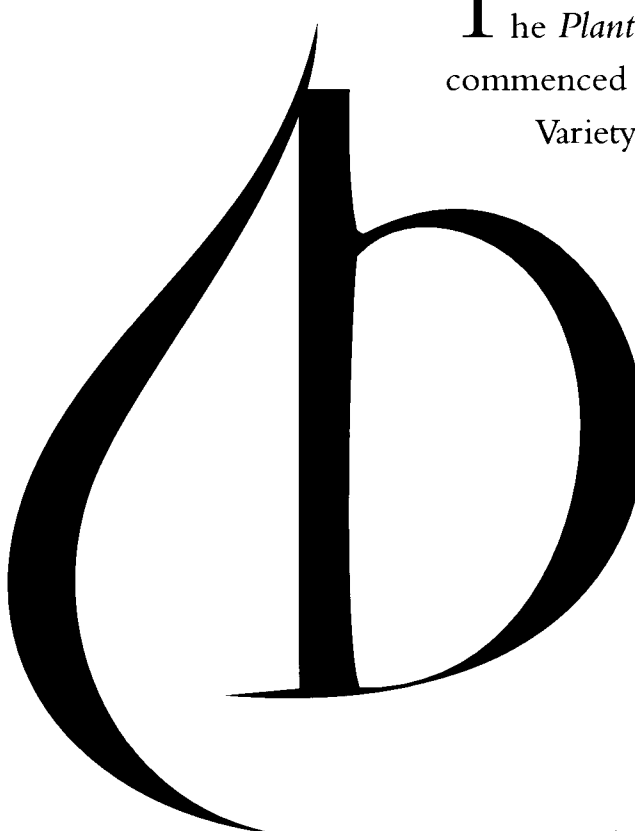
$$\begin{aligned} &= \sqrt{37.23(1/2 + 1/3)} \times 3.143 \\ &= 5.56 \times 3.143 \\ &= 17.47 \end{aligned}$$

Obviously the difference between the varietal means A and C (**1.33**) is not statistically significant. This confirms the results of the F test.

1 = In EXCEL 5, use ANOVA Two Factor Without Replication. The MSE is found from the MS column of the error row (i.e. the Mean Square of the Error)

GOOD NEWS

for the
NURSERY INDUSTRY!



The *Plant Breeders Rights Act 1994* has now commenced and **PBR Australia** (formerly Plant Variety Rights) is able to offer greater protection and more benefits to plant breeders than ever before.

- ⊕ controlled distribution and sales
- ⊕ penalties for infringement
- ⊕ more species protected
- ⊕ test marketing before application
- ⊕ reduced fees
- ⊕ sustainable returns

PBR Australia - Protecting your investment